ORDER NO. VRD8907M147

Service Manual

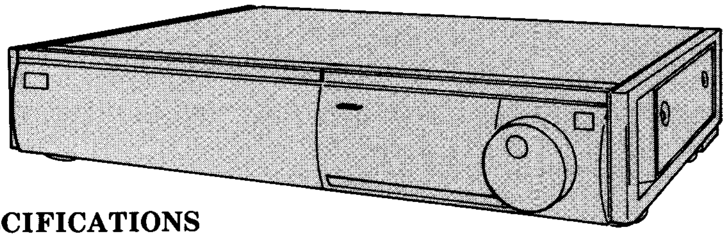
Video Cassette Recorder

Panasonic S-VHS VHS PAL 625

Hi-Fi HQ

NV-FS100EG EI

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 220V 50/60Hz	
	CONSUMPTION: 42 watts (NV-FS100EG) 41 watts (NV-FS100EI)	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL	
TV TUNER SYSTEM	NV-FS100EG	VHF I: CHE2~CHE4 VHF III: CHS4~CHE12 VHF H: CHS11~CHS20 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced
	NV-FS100EI	VHF I: CHA~CHH VHF III: CHS4~CHH2 VHF H: CHS11~CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced
RF OUT SYSTEM	UHF: CH36±4 (PAL/SECAM G) 73^{+2}_{-3}dBμ, 75Ω terminated	
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L′-R′ heads), 1 flying erase head	
	INPUT: VIDEO IN Connector (BNC type) 1.0Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0Vp-p, 75Ω terminated S-VIDEO IN Connector (4P) Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p, 75Ω unbalanced	
	OUTPUT: VIDEO OUT Connector (BNC type) 1.0Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0Vp-p, 75Ω terminated S-VIDEO OUT Connector (4P) Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p, 75Ω unbalanced	

ITEM	SPECIFICATION
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)
	INPUT: AUDIO IN Connector (Phono type) More than −10dBV (316mV), more than 50kΩ EURO AV Connector (21 pin) More than −10dBV (316mV), more than 10kΩ MICROPHONE JACK −70dBV
	OUTPUT: AUDIO OUT Connector (Phono type) −8dBV (400mV), Less than 1kΩ EURO AV Connector (21 pin) −6dBV (500mV), Less than 1kΩ HEAD PHONE Jack −30dBV, 8Ω
	TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
TAPE FORMAT	S-VHS, VHS Cassette tape (Tape width 12.7mm)
TAPE SPEED	SP: 23.39mm/s LP: 11.695mm/s Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time 3.0min. with 180min. type tape
DIMENSIONS	430(W) × 109(H) × 404(D)mm
WEIGHT	7.0kg
STANDARD ACCESSORIES	1 pc. DIN-RE Cable 1 pc. Infra-red remote controller 2 pc. Audio Cables 1 pc. Digital Scanner 1 pc. Programme sheet 1 pc. AC Mains Lead 1 pc. 4P Cable

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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Central P.O. Box 288, Osaka 530-91, Japan

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.
Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.
Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.
In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.
Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...
Section 4 contains exploded views and parts list.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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REMARKS:

1. It is possible to receive, record and playback colour broadcasts from East Germany (DDR) on this video recorder.
2. When a video tape that was recorded with a colour TV broadcast from East Germany on this VTR is played back on a SECAM (France) or a PAL VTR, the picture may be in black and white.
3. When a video tape recorded on a SECAM (France) VTR or a SECAM (France) pre-recorded video tape is played back on this VTR, the picture is in black and white.

SERVICE INFORMATION

1-1. HOW TO CHECK THE CRACKED CHIP PART

(1) Apply heat to the soldered portions of chip part using a soldering iron for about 2–3 seconds.
(2) If the chip part is faulty,it will be broken or cracked.

Caution: Do not leave soldering iron on the PCB too long as damage may occur to the PCB or the chip parts.

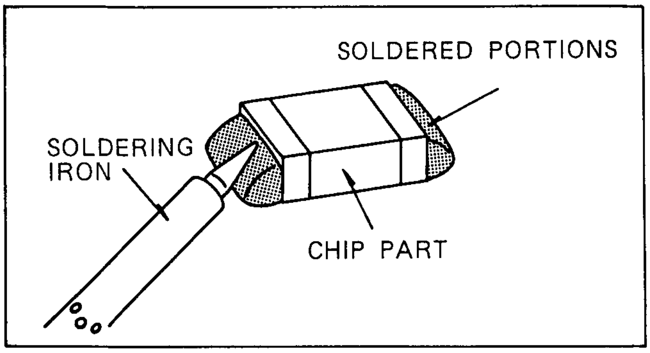

SOLDERED PORTIONS
SOLDERING IRON
CHIP PART

FIG. G1

Note: Regarding intermittent faults
The main causes of these faults are poor soldering and cracked chip parts.

1-2. HOW TO REPLACE THE CHIP PART

1) REMOVAL (RESISTOR, CAPACITOR, etc...)

(1) Presolder the one side of soldering portion for chip part and grasp the chip part by tweezers.

(2) Melt the presoldered portion. And then remove the chip part with a twisting motion while melting the soldering portion of another side quickly.

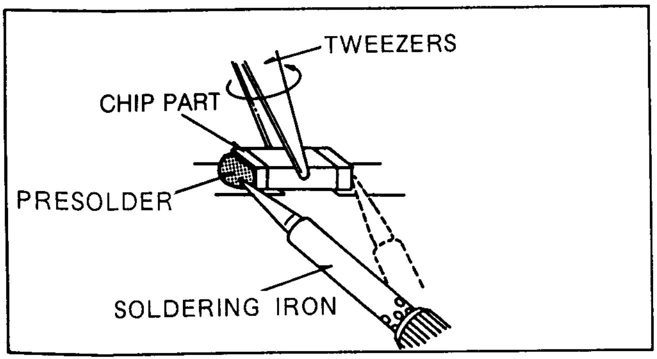

TWEEZERS
CHIP PART
PRESOLDER
SOLDERING IRON

FIG. G2

2) REMOVAL (transistor, diode, etc...)

(1) Grasp the chip part with tweezers and melt the solder of one lead.

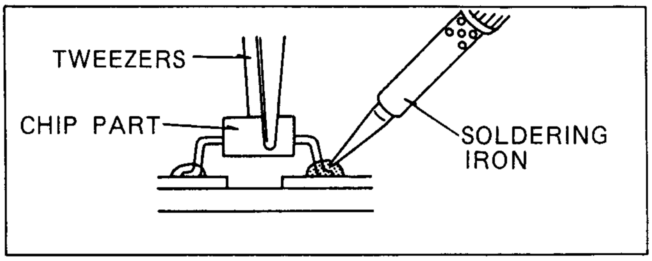

TWEEZERS
CHIP PART
SOLDERING IRON

FIG. G3

(2) Lift the side of that lead upward.

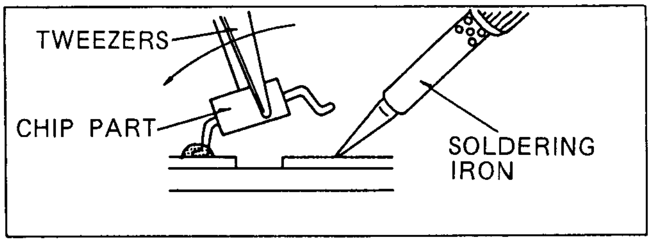

TWEEZERS
CHIP PART
SOLDERING IRON

FIG. G4

Caution: Do not lift the chip part too high as damage may occur to the PCB or the leads that are still soldered on the PCB.

(3) Simultaneously heat the solder of the two remaining leads and lift part to remove.

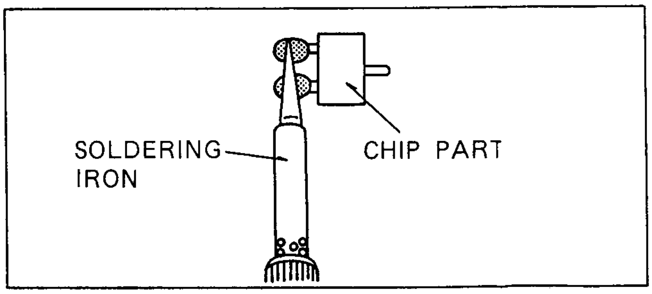

SOLDERING IRON
CHIP PART

FIG. G5

3) INSTALLATION

(1) Presolder the one side of contact point on the circuit board.

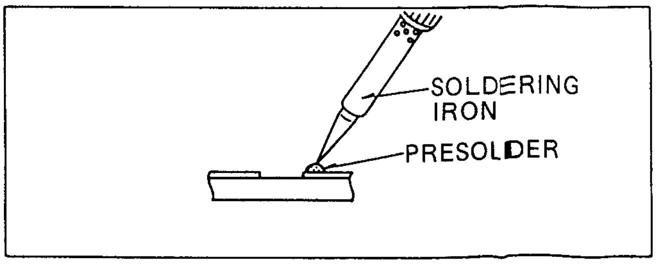

SOLDERING IRON
PRESOLDER

FIG. G6

(2) To install the chip part,hold in position using tweezers, apply heat to the pre-soldered portions using a fine tip soldering iron.
(3) Solder the other side of the chip part.
(4) Check your soldering.

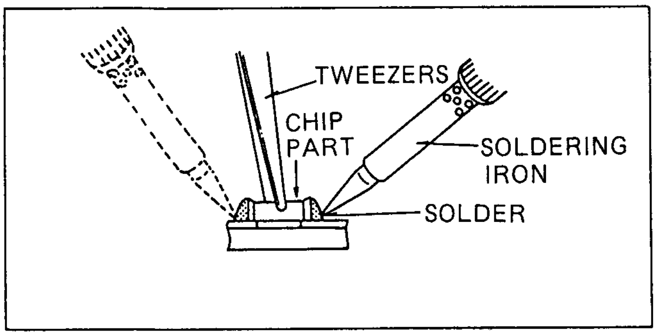

TWEEZERS
CHIP PART
SOLDERING IRON
SOLDER

FIG. G7

1-3. HOW TO REMOVE THE FLAT-IC

(WITH HOT-AIR FLAT-IC DESOLDERING MACHINE)

(FOR EXAMPLE)

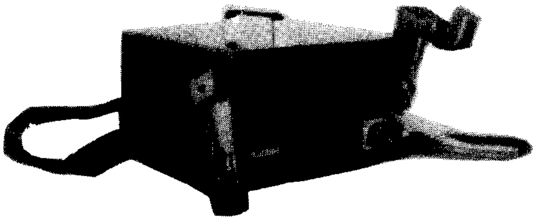


FIG. G8

(1) Prepare the HOT-AIR FLAT-IC DESOLDERING MACHINE. And then apply hot air to FLAT-IC about 5 ~ 8 seconds.

(2) Remove the FLAT-IC with tweezers while applying the hot air.

Caution: Do not supply the hot air to the chip parts around the Flat-IC for long time as as damage may occur to the chip parts around the Flat -IC.

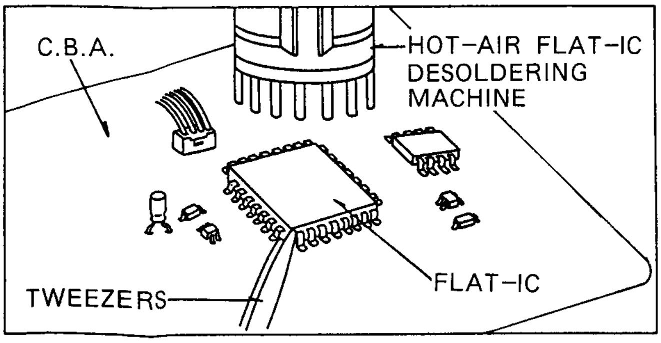

C.B.A.
HOT-AIR FLAT-IC DESOLDERING MACHINE
TWEEZERS
FLAT-IC

FIG. G9

(WITH SOLDERING IRON)

(1) Using solder braid remove the solder from all pins of the Flat-IC.
When you use the solder flux which is applied to all pins of the Flat-IC,you can remove it easily.

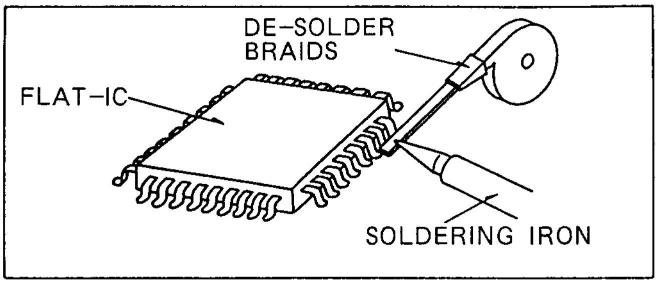

DE-SOLDER BRAIDS
FLAT-IC
SOLDERING IRON

FIG. G10

(2) Lift each lead of the Flat-IC upward one by one using a sharp pin or non solder wire(iron wire),while heating the pins using a fine tip soldering iron or a hot air blower.

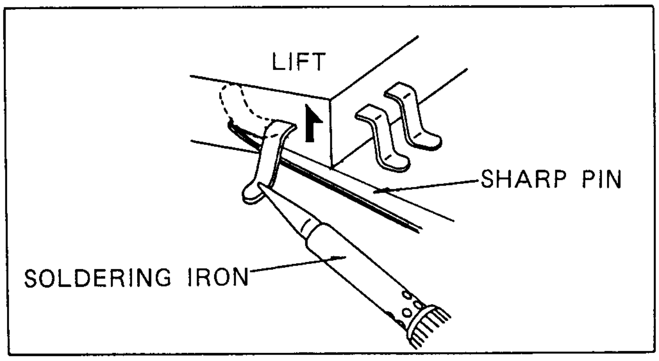

LIFT
SHARP PIN
SOLDERING IRON

FIG. G11

(WITH IRON WIRE)

(1) Affix the wire to workbench or solid mounting point as shown in FIG.G12.
(2) Pull up wire as the solder melts so as to lift the IC lead from the PCB contact pad,while heating the pins using a fine tip soldering iron or hot air blower.

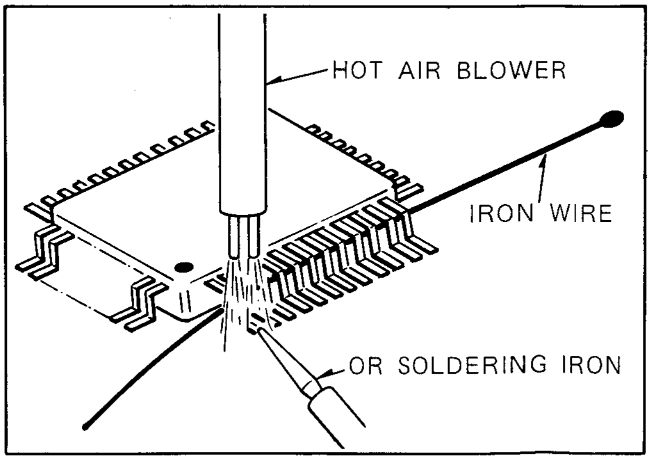

HOT AIR BLOWER
IRON WIRE
OR SOLDERING IRON

FIG.G12

Note: When using a soldering iron care must be taken to ensure that the Flat IC is not being held by glue before it is the PCB may be damaged if force is used.

1-4. SERVICING THE LUMINANCE & CHROMINANCE PACK C.B.A., HQ PACK C.B.A. & SERVO PACK C.B.A.

When servicing the luminance/chrominance pak C.B.A.,HQ pack C.B.A. and Servo pack C.B.A.,connections of extension cables are necessary as shown below.

PART NO	PART NAME	PCS	CONNECTION
VFK0582	8P EXTENSION CABLE	1	PK3021 – PK3021
VFK0583	9P EXTENSION CABLE	1	PK2204 – PK2204
VFK0584	11P EXTENSION CABLE	2	PK2203 – PK2203, PK3013 – PK3013
VFK0585	12P EXTENSION CABLE	2	PK3011 – PK3011, PK3012 – PK3012
VFK0586	15P EXTENSION CABLE	3	PK2201 – PK2201, PK2202 – PK2202, PK3022 – PK3022

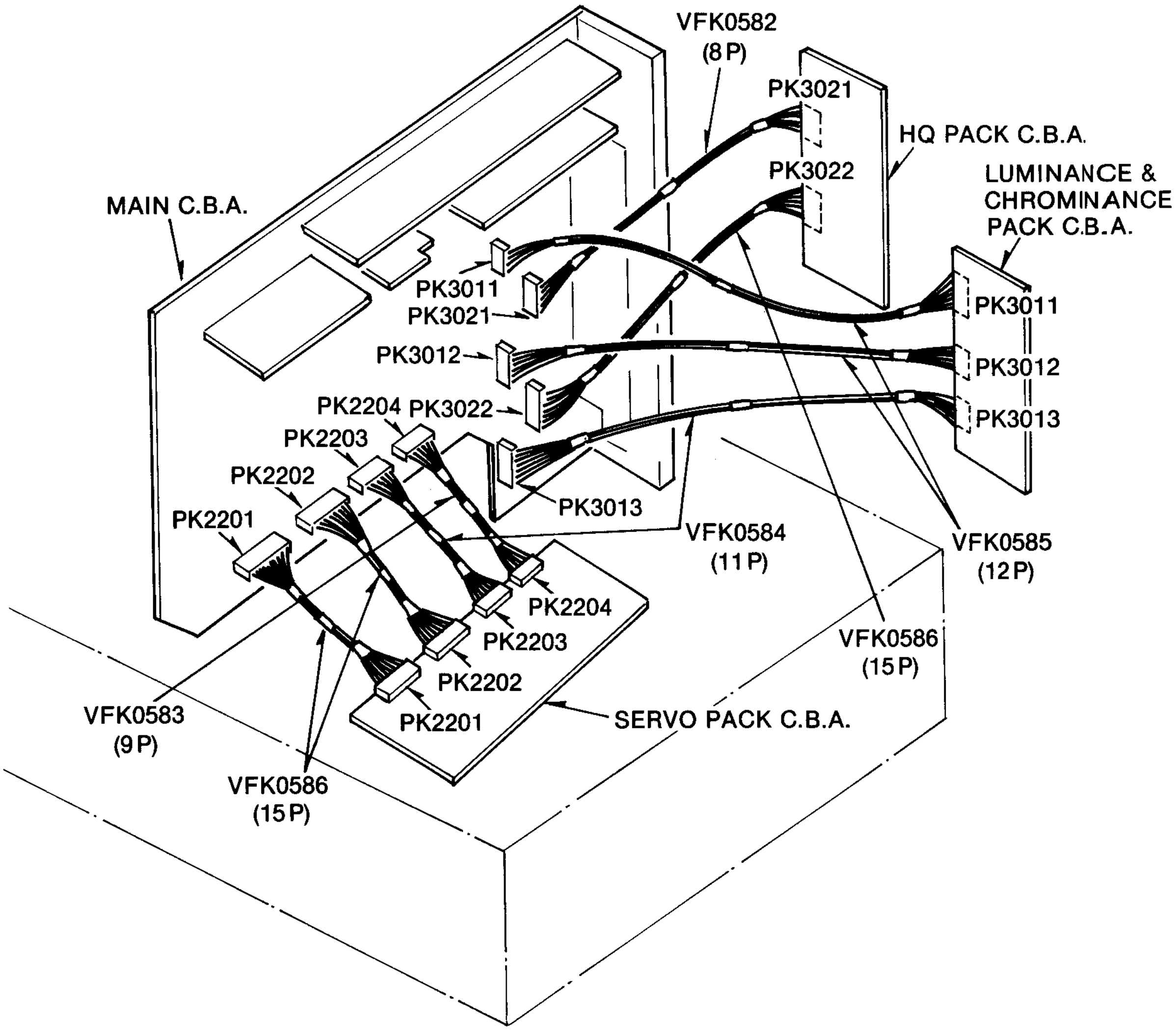
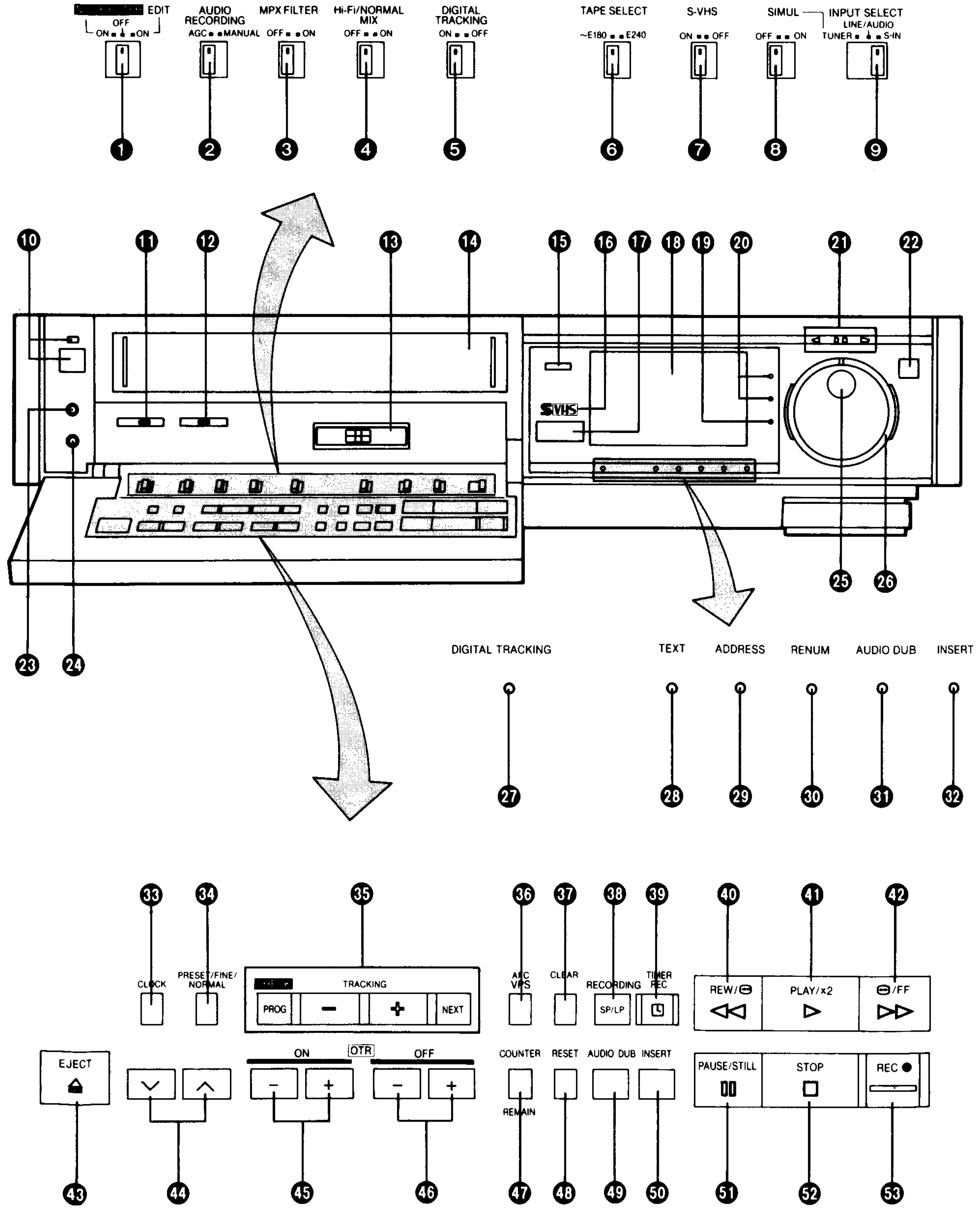

VFK0582
(8P)
PK3021
HQ PACK C.B.A.
PK3022
LUMINANCE &
CHROMINANCE
PACK C.B.A.
MAIN C.B.A.
PK3011
PK3021
PK3011
PK3012
PK3012
PK2204
PK3022
PK3013
PK2203
PK2202
PK2201
PK3013
VFK0584
(11P)
VFK0585
(12P)
PK2204
PK2203
VFK0586
(15P)
PK2202
PK2201
SERVO PACK C.B.A.
VFK0583
(9P)
VFK0586
(15P)

Fig.S1

SECTION 1
GENERAL DESCRIPTIONS

1-1. CONTROLS AND COMPONENTS

FRONT


[redacted] EDIT
OFF
ON ON
AUDIO RECORDING
AGC MANUAL
MPX FILTER
OFF ON
Hi-Fi/NORMAL MIX
OFF ON
DIGITAL TRACKING
ON OFF
TAPE SELECT
~E180 E240
S-VHS
ON OFF
SIMUL
OFF ON
INPUT SELECT
LINE/AUDIO
TUNER S-IN
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
S-VHS
㉓
㉔
㉕
㉖
DIGITAL TRACKING
TEXT
ADDRESS
RENUM
AUDIO DUB
INSERT
㉗
㉘
㉙
㉚
㉛
㉜
㉝
㉞
㉟
㊱
㊲
㊳
㊴
㊵
㊶
㊷
CLOCK
PRESET/FINE/NORMAL
[redacted]
TRACKING
PROG
NEXT
AFC VPS
CLEAR
RECORDING
SP/LP
TIMER REC
REW/⊖
PLAY/×2
⊖/FF
EJECT
ON
OTR
OFF
COUNTER
REMAIN
RESET
AUDIO DUB
INSERT
PAUSE/STILL
STOP
REC ●
㊸
㊹
㊺
㊻
㊼
㊽
㊾
㊿
(51)
(52)
(53)

❶ Noise Filter/Edit Selector

❷ Audio Rec Level Control Selector

❸ MPX Filter Switch

❹ Hi-Fi/Normal Mix Switch

❺ Digital Tracking Selector

❻ Tape Select Switch

❼ S-VHS Selector

❽ Simulcast Switch

❾ Input Signal Selector

❿ VTR On/Off Switch with Indicator

⓫ Headphones Output Level Control

⓬ Picture Sharpness Control

⓭ Audio Rec Level Controls

⓮ Cassette Compartment

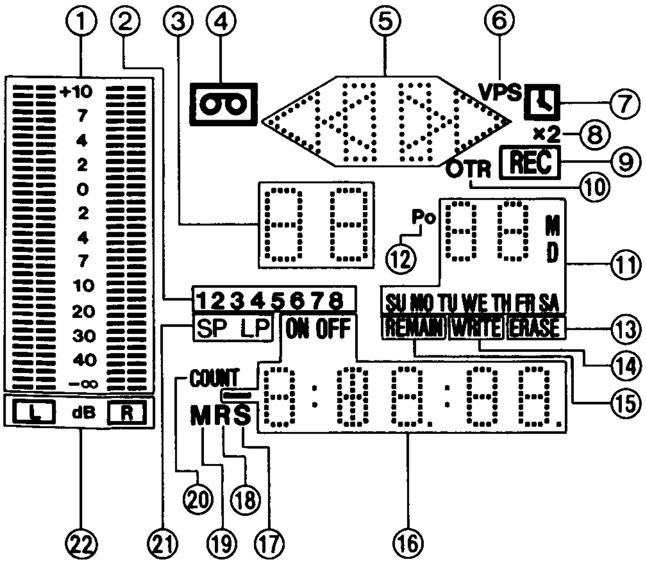
⓯ Control Panel Open Button

⓰ S-VHS Indicator

⓱ Infra-red Remote Control Receiver

⓲ Multi-Function Display

Multi-Function Display



① Audio Level Meter

② Timer Programme Number

③ Channel Display

④ Cassette-in Indicator

⑤ Tape Running Display

⑥ VPS Indicator

⑦ Timer Recording Indicator

⑧ Double Speed Indicator

⑨ Recording Indicator

⑩ OTR Indicator

⑪ Date Display

⑫ Position Indicator

⑬ Erase Indicator

⑭ Write Indicator

⑮ Remaining Tape Time Indicator

⑯ Tape Counter Indicator

⑰ Search Indicator

⑱ Repeat Indicator

⑲ Memory Indicator

⑳ Counter Mode Indicator

㉑ Tape Speed Indicator

㉒ Audio Playback Mode Indicators

⓳ Simulcast Indicator

⓴ Audio Recording Mode Indicators

㉑ Jog/Shuttle Indicator

㉒ Jog/Shuttle Button

㉓ Microphone Input Socket

㉔ Headphones Socket

㉕ Jog Dial

㉖ Shuttle Ring

㉗ Digital Tracking Indicator

㉘ Text Indicator (NV-FS100EG)

㉙ Address Indicator

㉚ Renumber Indicator

㉛ Audio Dubbing Indicator

㉜ Insert Editing Indicator

㉝ Clock Button

㉞ Preset/Fine/Normal Button

Channel Indication	TV Channel
2–12	*E2–E12
13–20	A–H (NV-FS100EI)
21–69	21–69
74–76	———
80–82	———
83–89	S4–S10
90–99	S11–S20
121–141	S21–S41 (NV-FS100EI)

* In Italy: H1... (11), H2... (12)

㉟ Timer Controls

㊱ AFC/VPS Button

㊲ Clear Button

㊳ Tape Speed Button

㊴ Timer Record Button

㊵ Rewind ◀◀/Review ⏪ Button

㊶ Play/×2 Button (▶)

㊷ Fast Forward ▶▶/Cue ⏩ Button

㊸ Eject Button (⏏)

㊹ Channel Selection Up and Down Buttons

㊺ OTR On Buttons

㊻ OTR Off Buttons

㊼ Counter/Remaining Tape Time Selector

㊽ Reset Button

㊾ Audio Dubbing Button

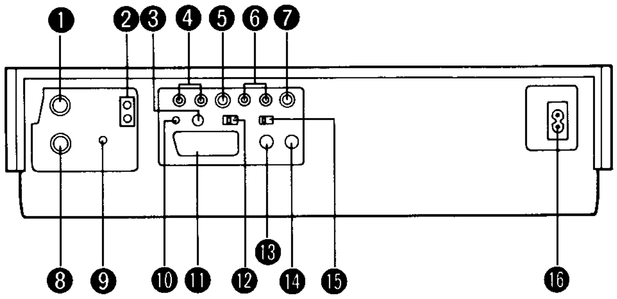
㊿ Insert Editing Button

(51) Pause/Still Button (❚❚)

(52) Stop Button (■)

(53) Record Button (●)

REAR



❶ RF Output Socket

❷ Vertical Lock Controls

❸ Editing Control Socket

❹ Audio Input Sockets

❺ Video Input Socket

❻ Audio Output Sockets

❼ Video Output Socket

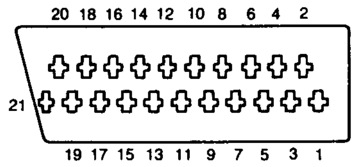
❽ RF Input Socket

❾ Video Playback Channel Selector

❿ Synchro Edit Socket

⓫ Euro AV Socket

Connections of the Euro AV Socket



NOR
1 AUDIO OUTPUT CH2 (R)
2 AUDIO INPUT CH2 (R)
3 AUDIO OUTPUT CH1 (L)
4 AUDIO GND
5 No connection
6 AUDIO INPUT CH1 (L)

7 No connection
8 SWITCHING VOLTAGE
9 No connection
10 No connection
11 No connection

12 No connection
13 No connection
14 No connection
15 No connection
16 No connection

17 VIDEO GND
18 No connection
19 VIDEO OUTPUT
20 VIDEO INPUT
21 GND

Y/C
1 AUDIO OUTPUT CH2 (R)
2 AUDIO INPUT CH2 (R)
3 AUDIO OUTPUT CH1 (L)
4 AUDIO GND
5 No connection
6 AUDIO INPUT CH1 (L)

7 No connection
8 SWITCHING VOLTAGE
9 No connection
10 No connection
11 No connection
12 No connection
13 No connection
14 No connection
15 C OUT
16 No connection

17 VIDEO GND
18 No connection
19 Y OUT
20 VIDEO INPUT
21 GND

⑫ Normal/Y/C Selector

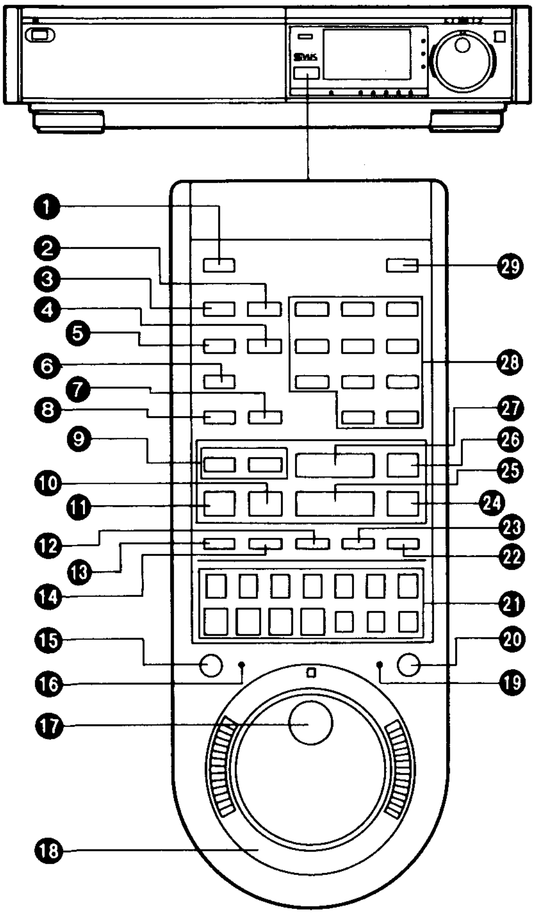
⑬ S-Video Input Socket

⑭ S-Video Output Socket

⑮ Comb Filter/Test Signal Switch

⑯ AC Mains Lead Socket

1-2. INFRA-RED REMOTE CONTROLLER & DIGITAL SCANNER



① VTR On/Off Button
② Clock Counter Selector
③ Audio Output Selector

	Playback of Programmes Recorded on this VTR (or another VHS Hi-Fi Video Recorder)		
	Stereo Programmes	Bilingual Programmes	Mono Programmes
STEREO	Left+Right Channels(Stereo)	CH1 from Left CH2 from Right	Mono
LEFT	Left Channel	Channel 1 (Main)	Mono
RIGHT	Right Channel	Channel 2 (Sub)	Mono
NORMAL	Mono	Channel 1 (Main)	Mono

	Playback of Programmes Recorded on a Conventional VHS Stereo Video Recorder	
	Stereo Programmes	Bilingual Programmes
STEREO	————	————
LEFT	————	————
RIGHT	————	————
NORMAL	Left+Right Mixed	CH1+CH2 Mixed

④ Remaining Tape Time Button
⑤ Memory Button
⑥ Reset Button
⑦ Blank Search Button
⑧ Time Search Button
⑨ Record Buttons (●)
⑩ Rewind ◀◀/Review ⊲⊲ Button
⑪ Pause/Still Button (❙❙)
⑫ Write Button
⑬ Index Button
⑭ Address Button
⑮ Jog/Shuttle On/Off Button
⑯ Jog/Shuttle Indicator
⑰ Jog Dial
⑱ Shuttle Ring
⑲ Channel Mode Indicator
⑳ Channel Mode On/Off Buttons
㉑ VPT Function Buttons
㉒ Renumber Button

㉓ Erase Button

㉔ Fast Forward ▶▶/Cue ⏩ Button

㉕ Play/×2 Button (▶)

㉖ Still Advance Button (❙❙▶)

㉗ Stop Button (■)

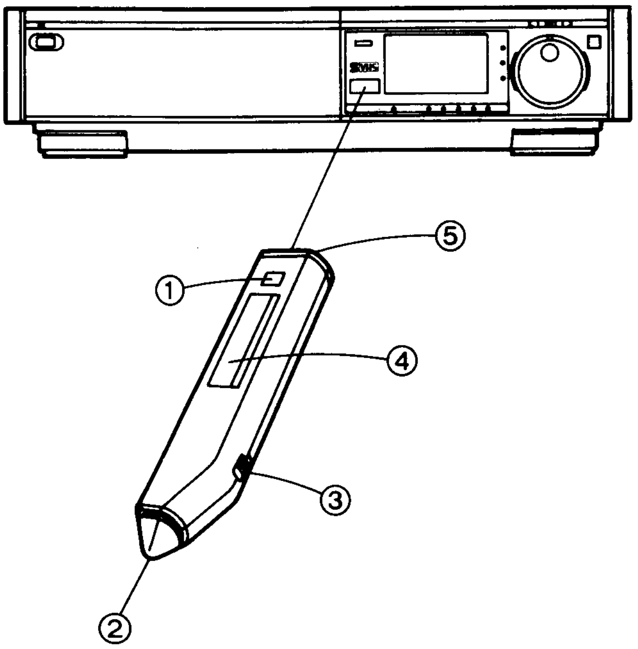
㉘ Programme Position (Channel) Selector Buttons

㉙ Monitor Button

Note:

㉑ VPT Function Buttons (NV-FS100EG)

Use these buttons when the optional VPT Adaptor is connected for use of the video programming teletext function. For the operation, refer to the operating instructions of the optional VPT Adaptor.

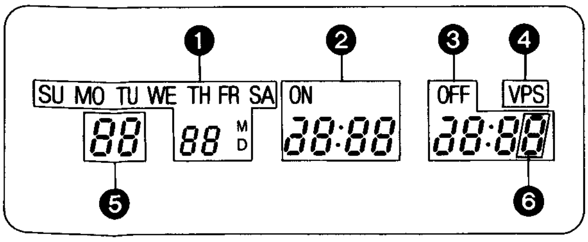


① **Transmit Button**

② **Bar Code Reading Section**

③ **Digital Scanner On/Off Switch**

④ **Bar Code Reader Display**



❶ Date Display

❷ Start Time Display

❸ End Time Display

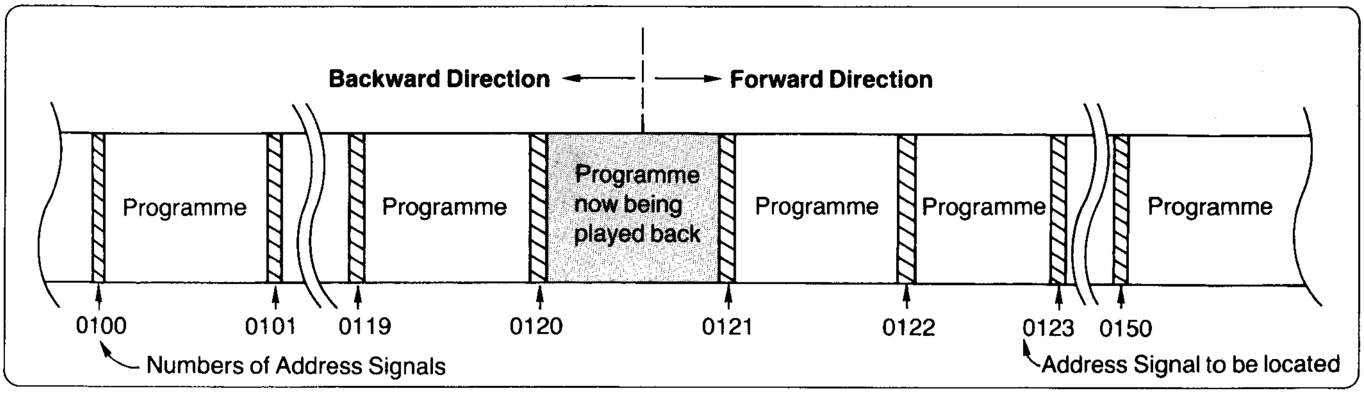
❹ VPS Indicator

❺ Channel Display

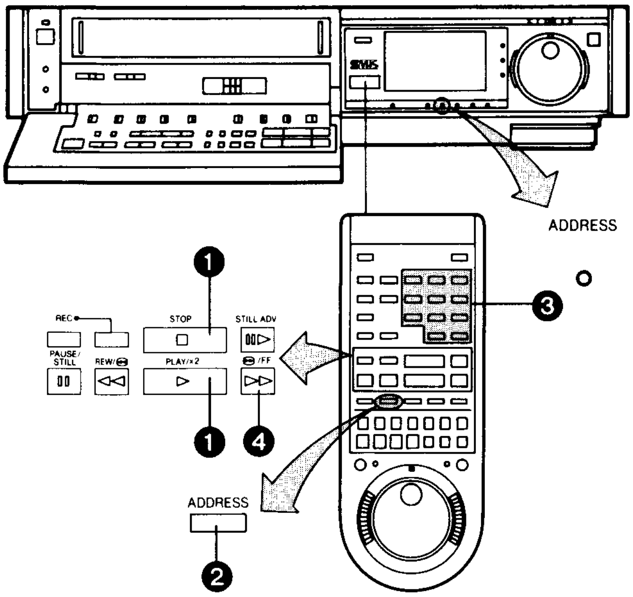
❻ Check Indicator

⑤ **Transmitting Section**

1-3. VHS ADDRESS SEARCH SYSTEM


Backward Direction
Forward Direction
Programme
Programme
Programme now being played back
Programme
Programme
Programme
0100
0101
0119
0120
0121
0122
0123
0150
Numbers of Address Signals
Address Signal to be located

A desired tape position can quickly be accessed by inputting the number of the corresponding Address Signal.


ADDRESS
1
3
REC
STOP
STILL ADV
PAUSE/STILL
REW/
PLAY/×2
/FF
1
4
ADDRESS
2

Inputting the Number of the Address Signal

Example: Inputting the Address Signal "0123"

❶ Press the Stop Button or the Play/×2 Button.

❷ Press the Address Button.
The Address Indicator on the VTR lights up.

❸ Input the number of the Address Signal of the desired tape position with the Programme Position Selector Buttons.

❹ Press the Fast Forward ▶▶/Cue ⊡ Button to start the search for the desired tape position.
- To stop the interrupt the Address Signal Search function, press the Play/×2 Button or the Stop Button.
- To search for an Address Signal in reverse direction, press the Rewind ◀◀/Review ⊡ Button.

During the VHS Address Signal Search
- Whenever an Address Signal is passed, its number will be indicated.
- When the selected Address Signal is reached, playback will start automatically.
- The fast forwarding or rewinding speed will be slightly slower than normal.

When starting the VHS Address Signal Search from the Still Playback Mode

When the selected Address Signal is reached, a still picture will be reproduced.
- In this case, the Multi-Function Display will not change back to the tape counter indication.
  To switch over to the tape counter indication, press the Address Button.

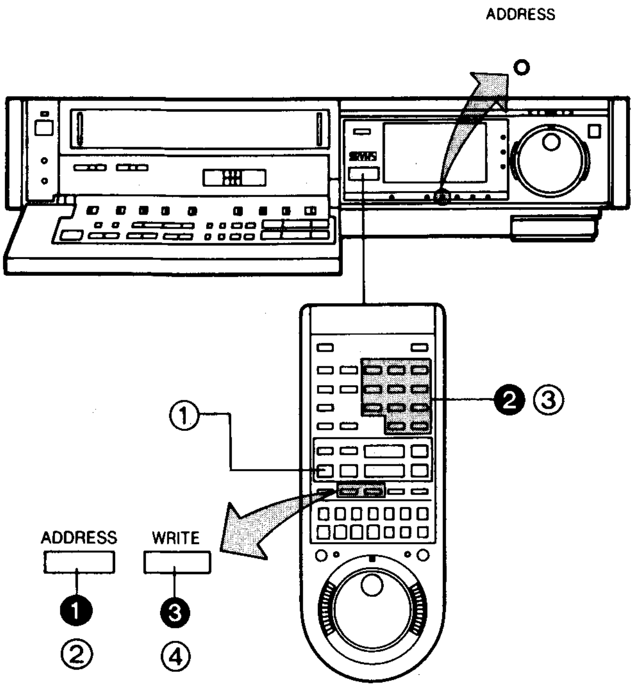
When the selected Address Signal Cannot Be Found
- When the tape reaches its end during the VHS Address Signal Search in forward direction, the Multi-Function Display changes back to the tape counter indication and the tape will be rewound automatically.
- When the tape reaches its end during the VHS Address Signal Search in reverse direction, the Address Indication will remain displayed and the tape will be stopped.

Finding out the Address Signal Number of a Certain Scene

Press the Address Button during fast-forwarding or rewinding of the tape.
- Whenever an Address Signal is passed, its number will be indicated in the Multi-Function Display.
- To change back to the tape counter indication, press the Address Button once more.
- When the Address Number "0000" is written on the tape, playback will start at the position.

Writing Address Signals

Address Signals can be written both during recording and playback.



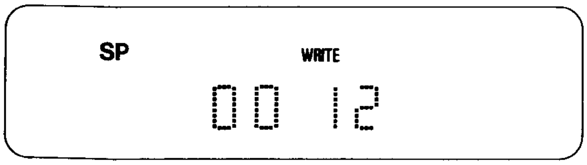
Writing Address Signals during Recording

Example: Writing Address Signal "0012".

❶ Press the Address Button. The Address Indicator on the VTR will flash.

❷ Input the desired number with the Programme Position Selector Buttons.

❸ Press the Write Button at the tape position which you want to mark with the set number.



- To change back to the tape counter indication, press the Address Button once more.
- When writing an Address Signal while the VTR is in the recording pause mode, the pause mode will be cancelled, the recording will start and an Address Signal will be written.
- While an Address Signal is being written, the Write Indicator flashes for several seconds.

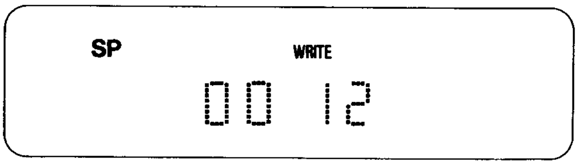
Writing Address Signals during Playback

① Press the Pause/Still Button at the tape position, which you want to mark with an Address Signal. The VTR is in the Still Playback mode.

② Press the Address Button.
The Address Indicator on the VTR will flash.

③ Input the desired number with the Programme Position Selector Buttons.

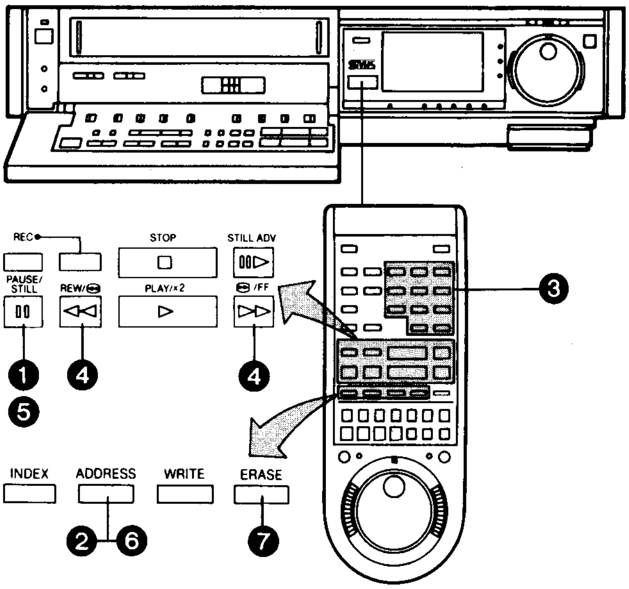
④ Press the Write Button.



- While an Address Signal is being written, the Write Indicator flashes for several seconds.
- After the writing of the Address Signal is finished, the Multi-Function Display will change back to the tape counter indication.

- While the Write Indicator is flashing, no other functions are operable, and the sound on the normal sound track will be blanked for this duration.
- If the erasure prevention tab of the cassette is broken out, it is not possible to write Address Signals.
- Address Signals must be spaced at least 2 minutes in normal playback time.

Erasing Unnecessary Address Signals



❶ Press the Pause/Still Button while the VTR is in the playback mode.

❷ Press the Address Button.

❸ Input with the Number Buttons the number of the Address signal that you want to erase.

❹ Press the Fast Forward or the Rewind Button. When the designated Address signal is reached, the VTR changes over to playback.

❺ Press the Pause/Still Button to put the VTR in the Still Playback mode.

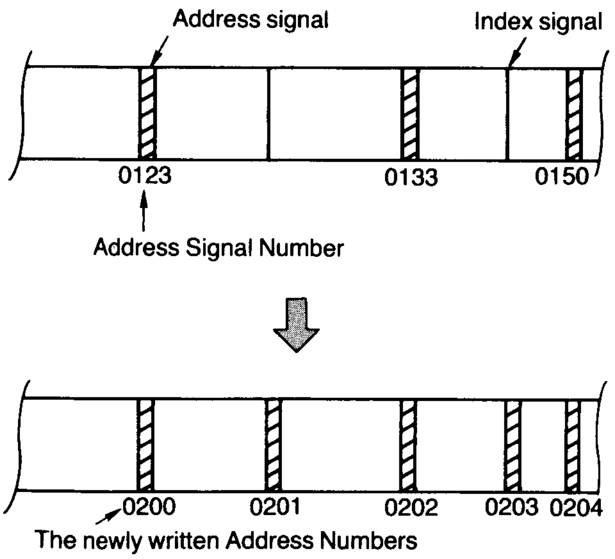
❻ Press the Address Button.

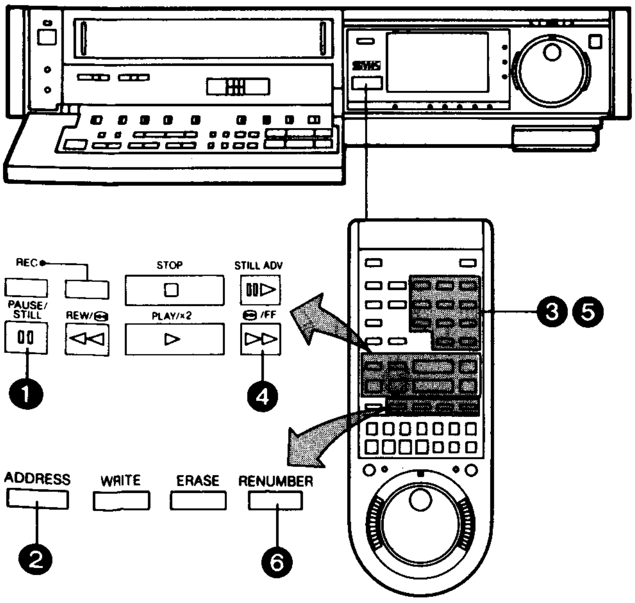
❼ Press the Erase Button.

- When the erasing is completed, the playback will continue.

Renumbering the Address Signals

It is possible to automatically and continuously renumber all Index and Address Signals on a tape starting with any desired number.


Address signal
Index signal
0123
0133
0150
Address Signal Number
0200
0201
0202
0203
0204
The newly written Address Numbers


REC●
STOP
STILL ADV
PAUSE/
STILL
REW/⊝
PLAY/×2
⊝/FF
❶
❹
❸❺
ADDRESS
WRITE
ERASE
RENUMBER
❷
❻

Example:
Changing all recorded Address Signals starting with the number "0123" (and all Index Signals) to new Address Signals starting with "0200".

❶ Press the Pause/Still Button during playback to change the VTR over to the Still Playback Mode.

❷ Press the Address Button.

❸ Use the Programme Position Selector Buttons to select the Address Number to be located ("0123").

❹ Press the Fast Forward ▶▶/Cue ⏩ Button to start the search.

❺ Input the new Address Number "0200" with the Programme Position Selector Buttons.

❻ Press the Renumber Button.

After Renumbering the Address Signals

- Such operations as fast-forward and rewinding should always be continued to the end of the tape.
- When the tape reaches its end, the tape will be rewound automatically.
- To interrupt the renumbering operation, press the Play/×2 Button or the Stop Button.

- During the renumbering operation, the Write Indicator flashes and no other functions are operable. Also, the sound on the normal sound track will be blanked for the duration of the flashing.
- If the erasure prevention tab of the cassette is broken out, the renumbering is not possible.

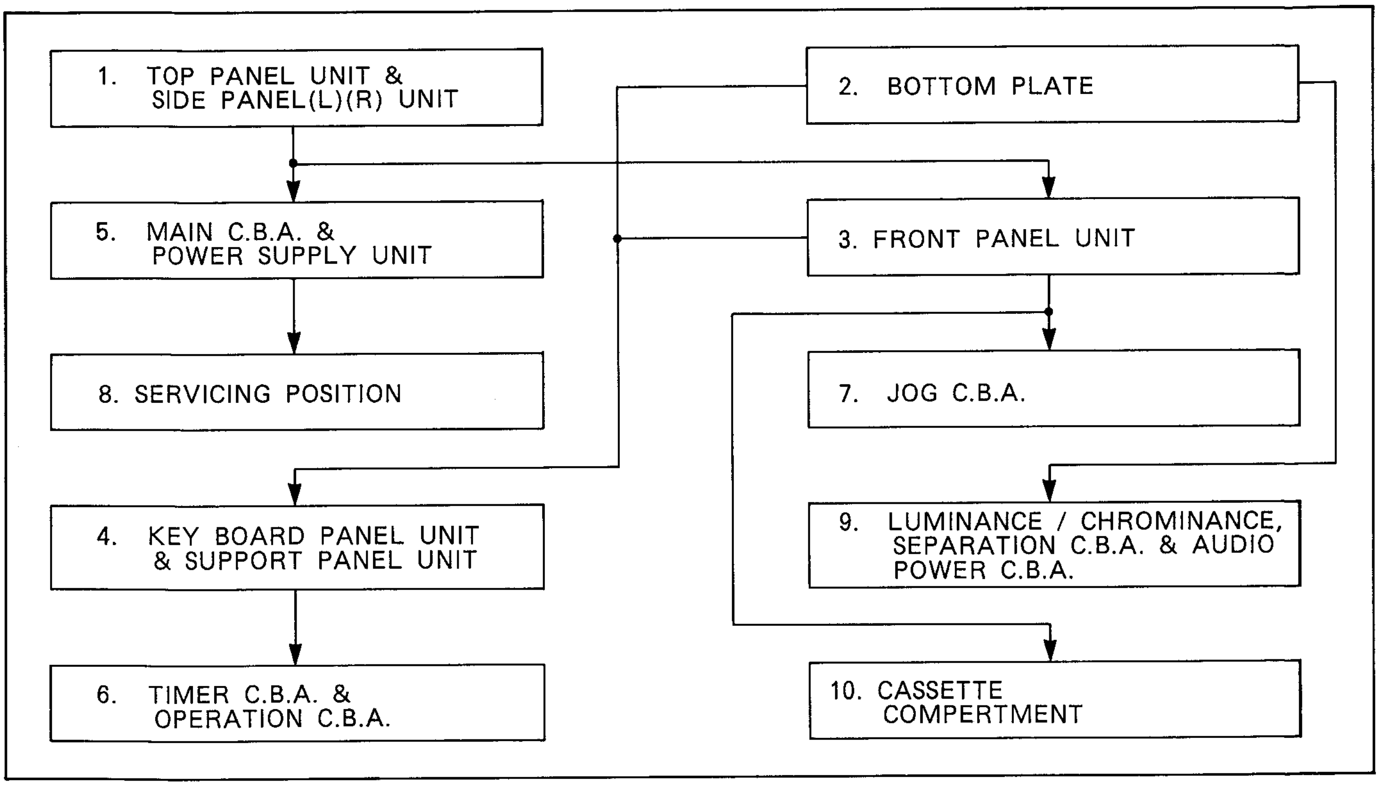
SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2–1–1. DISASSEMBLY FLOW CHART

This flowchart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary irems for servicing.

When reassembling, perform the steps in the reverse order.

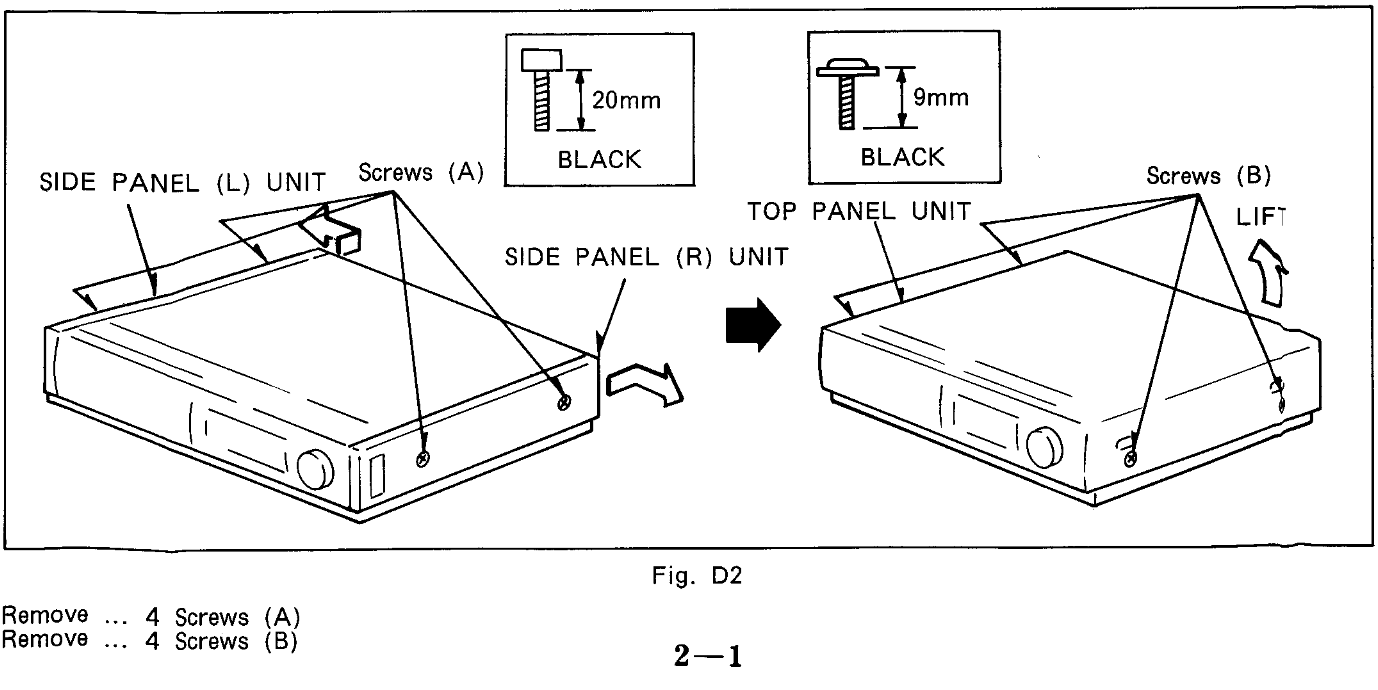


1. TOP PANEL UNIT & SIDE PANEL(L)(R) UNIT
2. BOTTOM PLATE
5. MAIN C.B.A. & POWER SUPPLY UNIT
3. FRONT PANEL UNIT
8. SERVICING POSITION
7. JOG C.B.A.
4. KEY BOARD PANEL UNIT & SUPPORT PANEL UNIT
9. LUMINANCE / CHROMINANCE, SEPARATION C.B.A. & AUDIO POWER C.B.A.
6. TIMER C.B.A. & OPERATION C.B.A.
10. CASSETTE COMPERTMENT

Fig. D1

2–1–2. DETAIL OF DISASSEMBLE METHOD

1. REMOVAL OF THE TOP PANEL UNIT & SIDE PANEL (L),(R) UNIT



20mm
BLACK
9mm
BLACK
SIDE PANEL (L) UNIT
Screws (A)
SIDE PANEL (R) UNIT
TOP PANEL UNIT
Screws (B)
LIFT

Fig. D2

Remove ... 4 Screws (A)
Remove ... 4 Screws (B)

2. REMOVAL OF THE BOTTOM PLATE

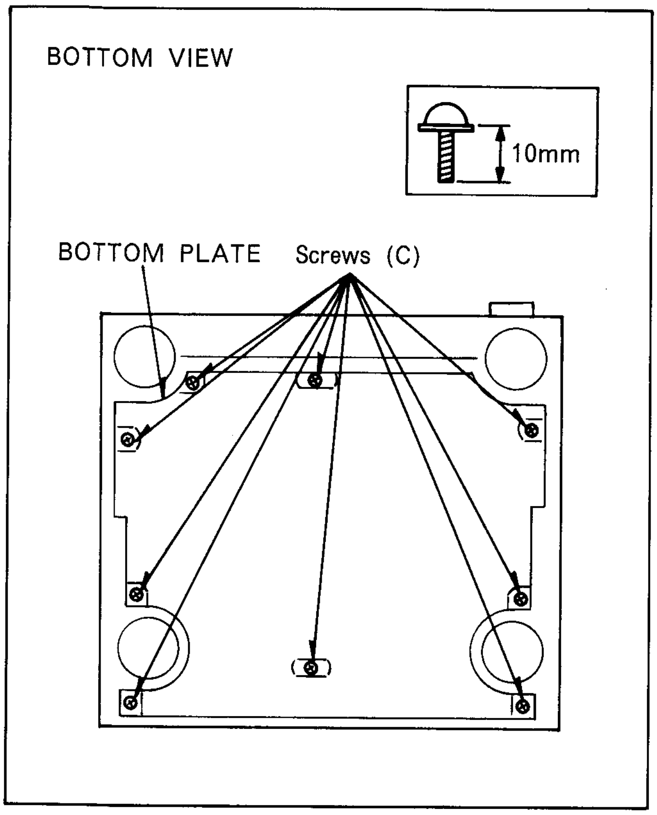

BOTTOM VIEW
10mm
BOTTOM PLATE
Screws (C)

Fig.D3

Remove ... 9 Screws (C)

3. REMOVAL OF THE FRONT PANEL UNIT

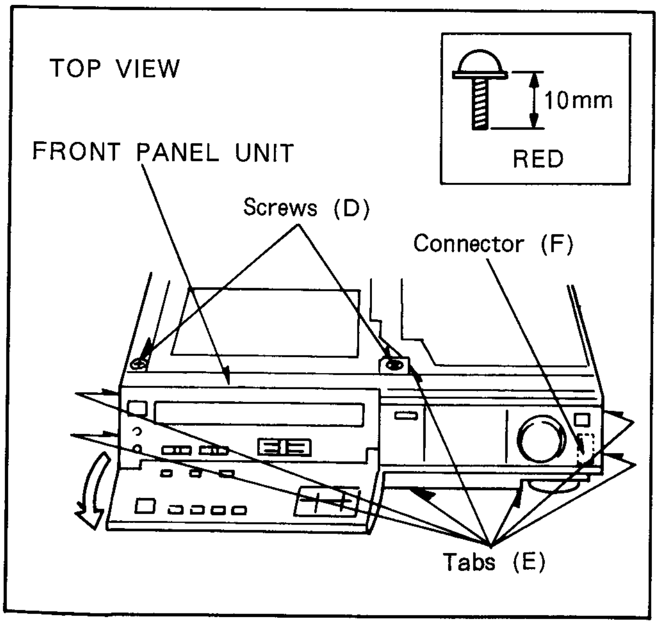

TOP VIEW
10mm
RED
FRONT PANEL UNIT
Screws (D)
Connector (F)
Tabs (E)

Fig. D4

Remove ... 2 Screws (D)
Unlock ... 7 Tabs (E)
Disconnect ... Connector (F)

4. REMOVAL OF THE KEY BOARD PANEL UNIT AND SUPPORT PANEL UNIT

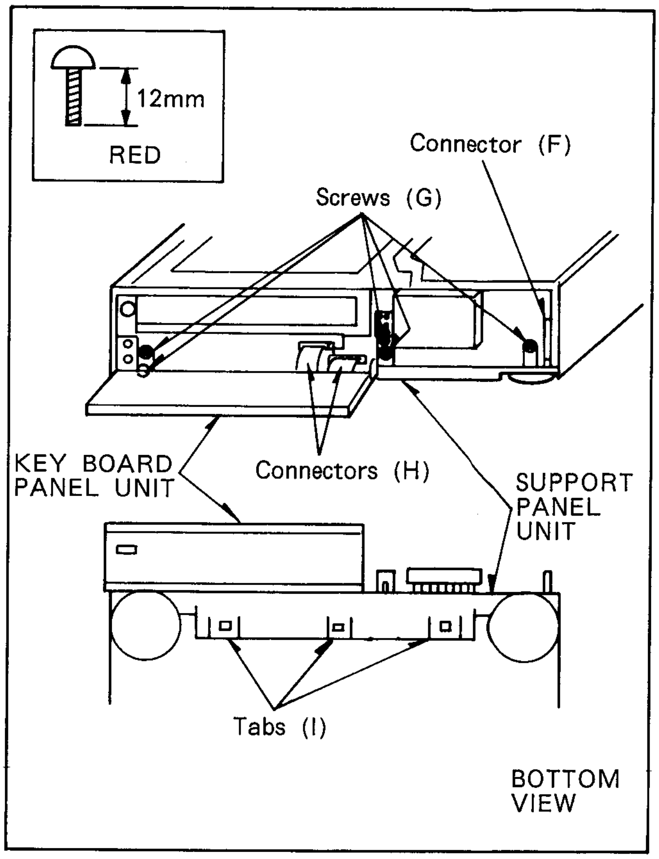

12mm
RED
Connector (F)
Screws (G)
KEY BOARD PANEL UNIT
Connectors (H)
SUPPORT PANEL UNIT
Tabs (I)
BOTTOM VIEW

Fig. D5

Remove ... 5 Screws (G)
Disconnect ... 2 Connectors (H)
Unlock ... 3 Tabs (I)

5. REMOVAL OF THE MAIN C.B.A. AND POWER SUPPLY UNIT

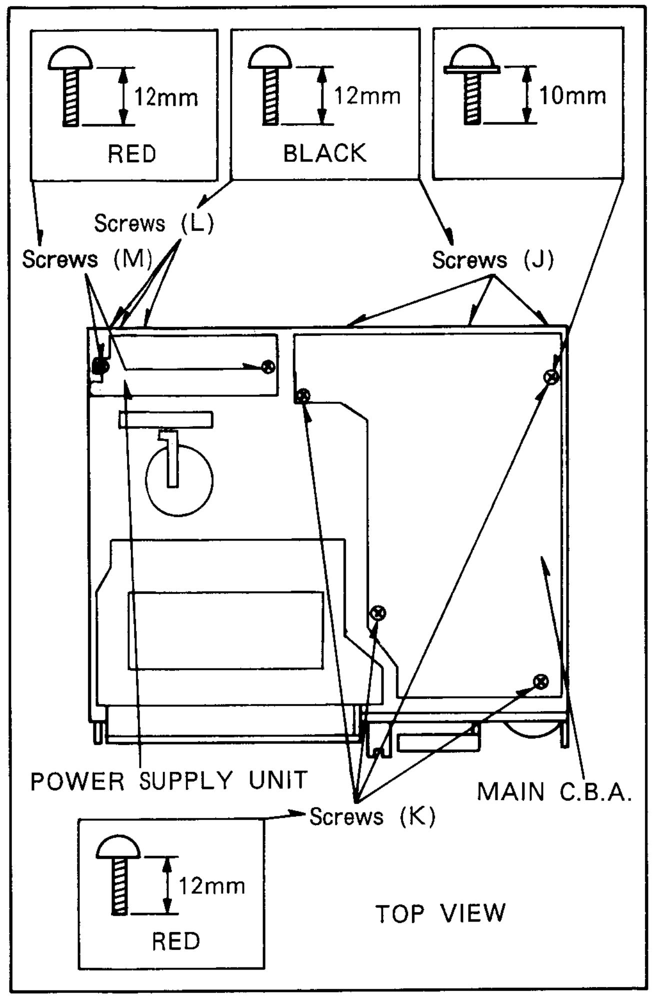

12mm
RED
12mm
BLACK
10mm
Screws (L)
Screws (M)
Screws (J)
POWER SUPPLY UNIT
Screws (K)
MAIN C.B.A.
12mm
RED
TOP VIEW

Fig. D6

REMOVAL OF THE MAIN C.B.A.

Remove ... 3 Screws (J), 4 Screws (K)

REMOVAL OF THE POWER SUPPLY UNIT

Remove ... 3 Screws (L), 2 Screws (M)

6. REMOVAL OF THE OPERATION C.B.A. and TIMER C.B.A.

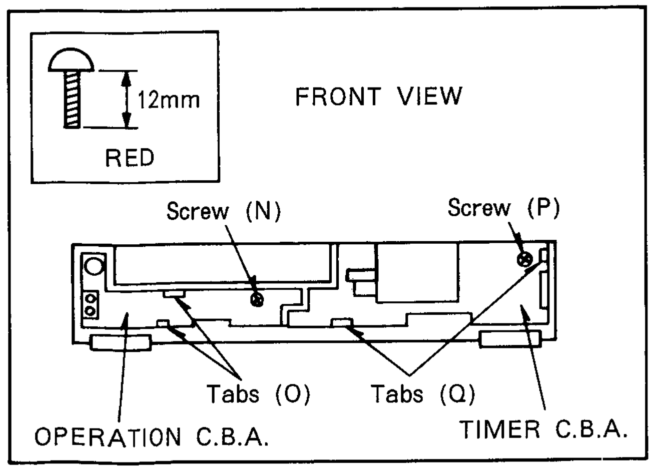

12mm
RED
FRONT VIEW
Screw (N)
Screw (P)
Tabs (O)
Tabs (Q)
OPERATION C.B.A.
TIMER C.B.A.

Fig. D7

REMOVAL OF THE OPERATION C.B.A.

Remove ... Screw (N)
Unlock ... 2 Tabs (O)

REMOVAL OF THE TIMER C.B.A.

Remove ... Screw (P)
Unlock ... 2 Tabs (Q)

7. REMOVAL OF THE JOG C.B.A.

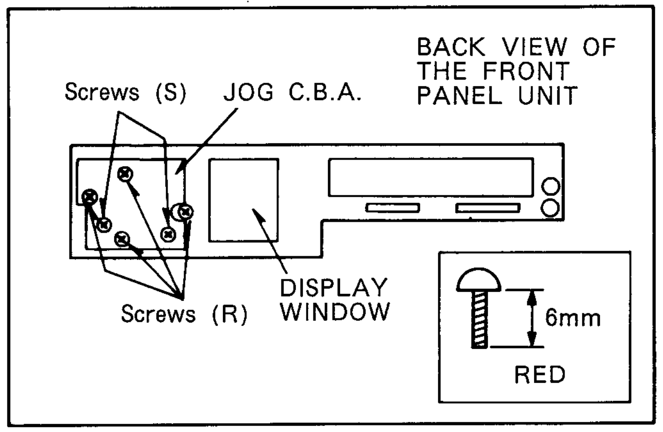

BACK VIEW OF THE FRONT PANEL UNIT
Screws (S)
JOG C.B.A.
DISPLAY WINDOW
Screws (R)
6mm
RED

Fig. D8

Remove ... 4 Screws (R)
(2 screws (S) ... For the JOG DIAL)

8. SERVICING

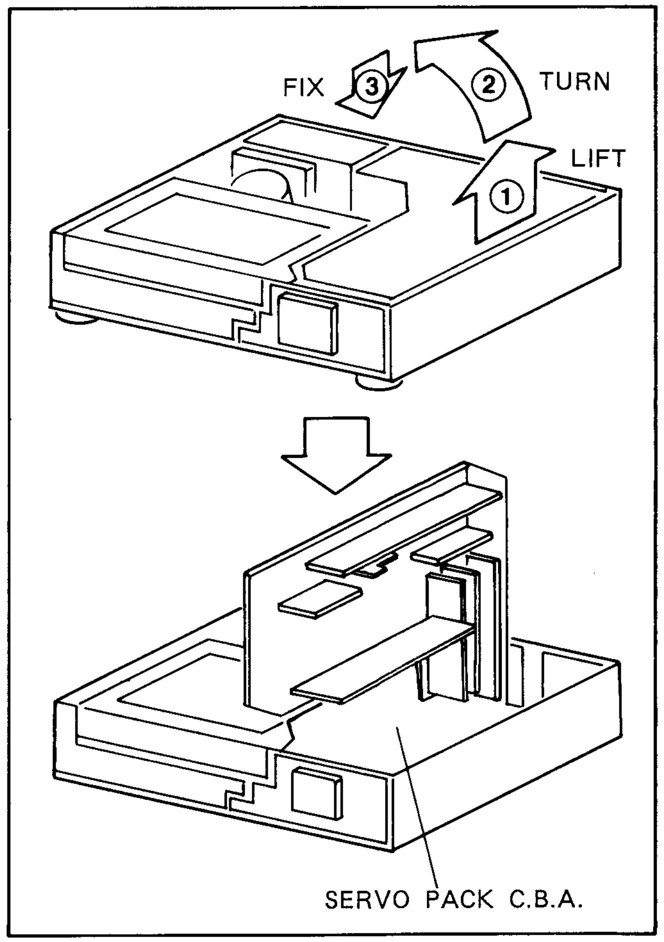

FIX
③
②
TURN
LIFT
①
SERVO PACK C.B.A.

Fig. D9

9. REMOVAL OF THE LUMINANCE / CHROMINANCE SEPARATION C.B.A. & AUDIO POWER C.B.A.

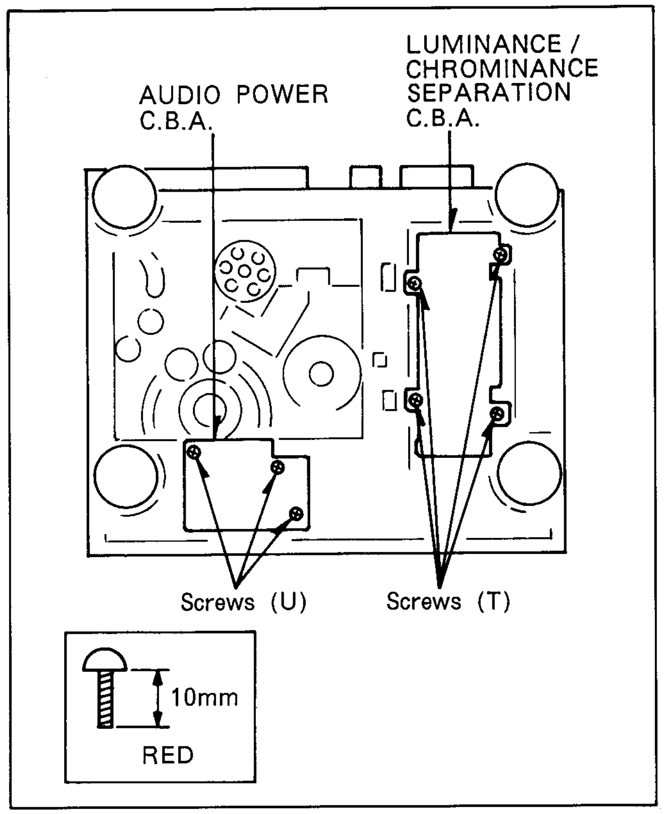

LUMINANCE / CHROMINANCE SEPARATION C.B.A.
AUDIO POWER C.B.A.
Screws (U)
Screws (T)
10mm
RED

Fig. D10

REMOVAL OF LUMINANCE / CHROMINANCE SEPARATION C.B.A.

Remove ... 4 Screws (T)

REMOVAL OF AUDIO POWER C.B.A.

Remove ... 3 Screws (U)

10. REMOVAL OF THE CASSETTE COMPERTMENT

Remove 2 screws (V) and slide the cassette holder until appearing 2 screws (W) by turning (clockwise) the capstan rotor unit (located in the bottom side) and then remove 2 screws (W).
Remove the flexible wire from connector P1503 mounted on Take-up photo Tr. C.B.A., then carefully pull out the cassette compartment.

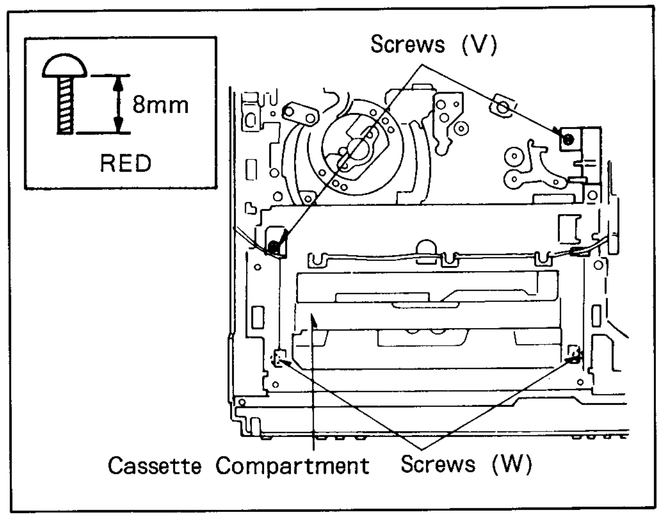

Screws (V)
8mm
RED
Cassette Compartment
Screws (W)

Fig. D11

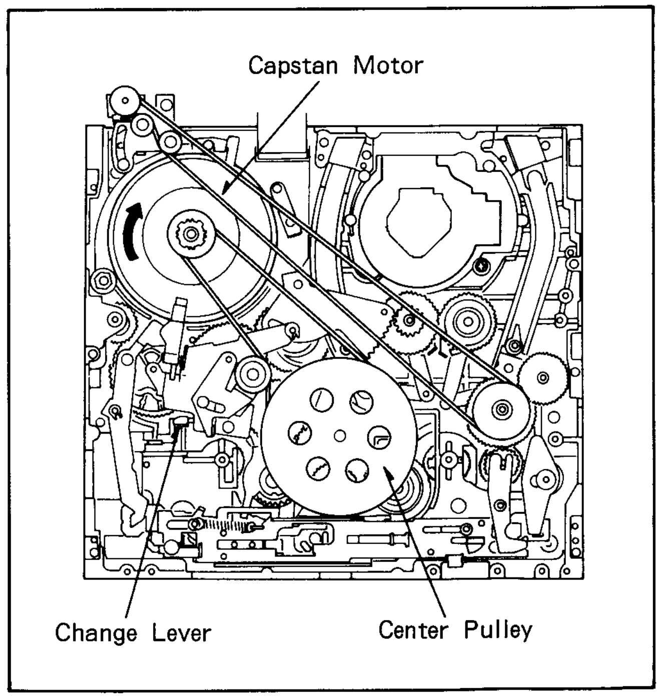

Capstan Motor
Change Lever
Center Pulley

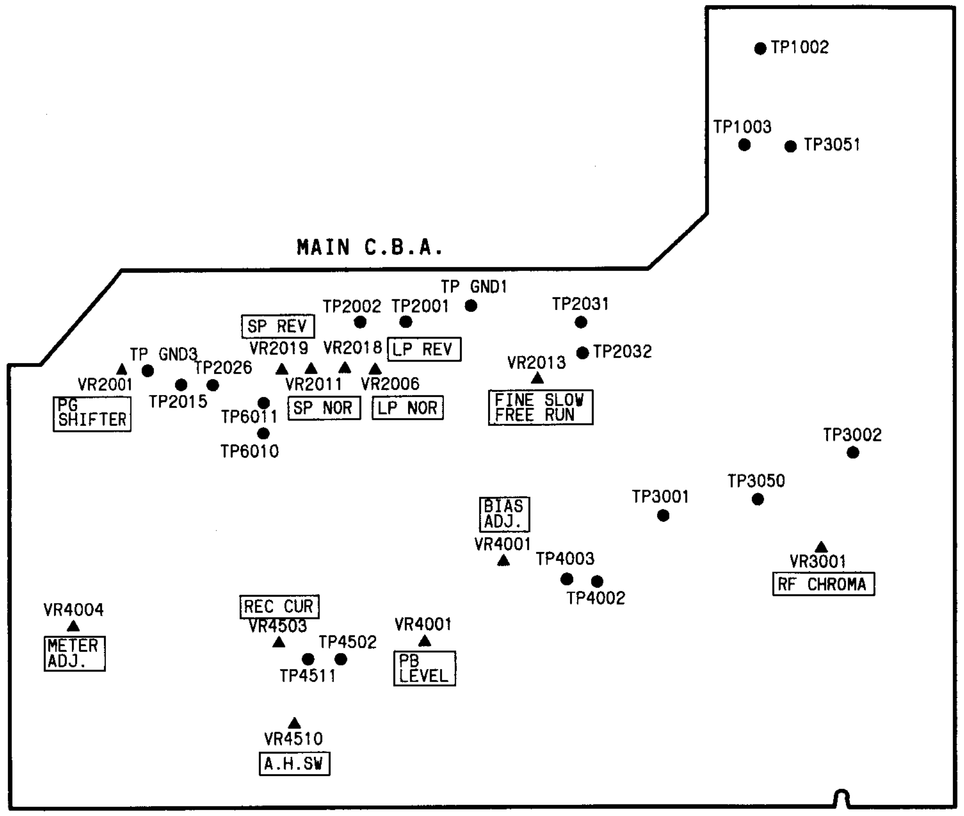
Fig. D12

2-2. MECHANICAL ADJUSTMENT PROCEDURES

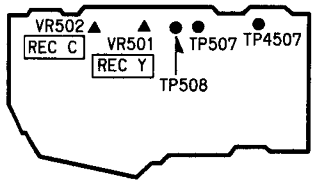
This Mechanical chassis is the same as G-II Mechanical chassis.
Therefore please refer to the service manual "G-II / G-REV" (Order No. VRD8901M101).

LOCATION OF TEST POINTS & CONTROLS

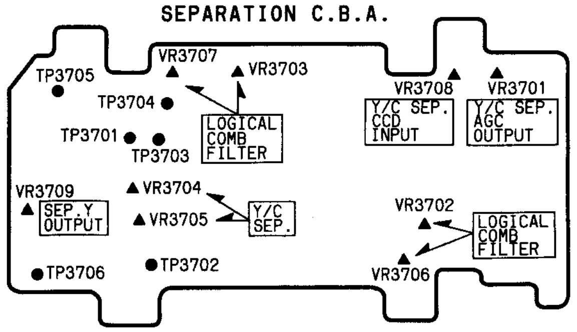
MAIN C.B.A.


TP1002
TP1003
TP3051
TP GND1
TP2002
TP2001
TP2031
SP REV
VR2019
VR2018
LP REV
TP GND3
TP2026
VR2013
TP2032
VR2001
PG SHIFTER
TP2015
TP6011
VR2011
VR2006
SP NOR
LP NOR
FINE SLOW FREE RUN
TP6010
TP3002
TP3050
TP3001
BIAS ADJ.
VR4001
TP4003
TP4002
VR3001
RF CHROMA
VR4004
METER ADJ.
REC CUR
VR4503
TP4502
TP4511
VR4001
PB LEVEL
VR4510
A.H.SW

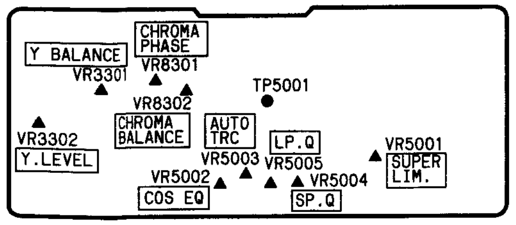
HEAD AMP C.B.A.


VR502
REC C
VR501
REC Y
TP507
TP4507
TP508

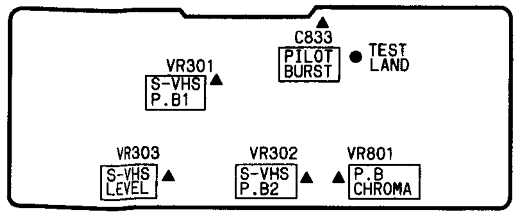
LUMINANCE & CHROMINANCE SEPARATION C.B.A.


VR3707
VR3703
TP3705
TP3704
TP3701
TP3703
LOGICAL COMB FILTER
VR3708
VR3701
Y/C SEP. CCD INPUT
Y/C SEP. AGC OUTPUT
VR3709
SEP.Y OUTPUT
VR3704
VR3705
Y/C SEP.
VR3702
LOGICAL COMB FILTER
VR3706
TP3706
TP3702

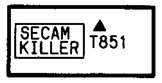
HQ PACK C.B.A.


Y BALANCE
VR3301
CHROMA PHASE
VR8301
VR8302
TP5001
VR3302
Y.LEVEL
CHROMA BALANCE
AUTO TRC
VR5003
LP.Q
VR5005
VR5001
SUPER LIM.
VR5002
COS EQ
VR5004
SP.Q

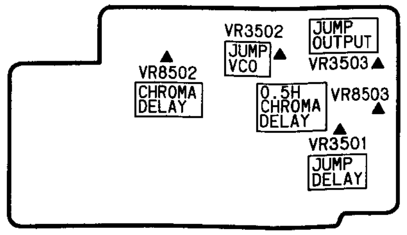
LUMINANCE & CHROMINANCE PACK C.B.A.


C833
PILOT BURST
TEST LAND
VR301
S-VHS P.B1
VR303
S-VHS LEVEL
VR302
S-VHS P.B2
VR801
P.B CHROMA

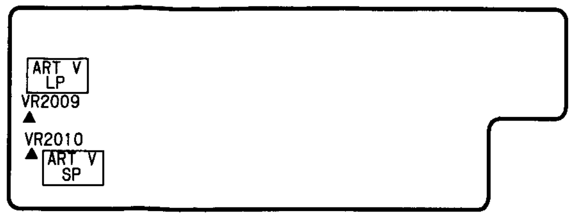
DDR SECAM PACK C.B.A.


SECAM KILLER
T851

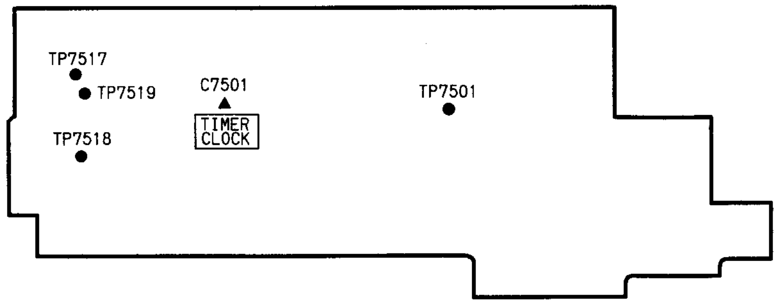
SUB LUMINANCE & CHROMINANCE C.B.A.


VR3502
JUMP VCO
JUMP OUTPUT
VR3503
VR8502
CHROMA DELAY
0.5H CHROMA DELAY
VR8503
VR3501
JUMP DELAY

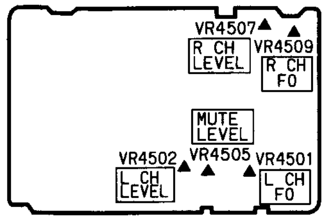
INPUT/OUTPUT PACK C.B.A.


ART V LP
VR2009
VR2010
ART V SP

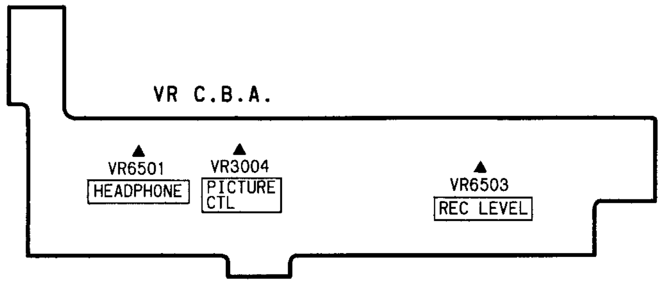
TIMER C.B.A.


TP7517
TP7519
C7501
TIMER CLOCK
TP7501
TP7518

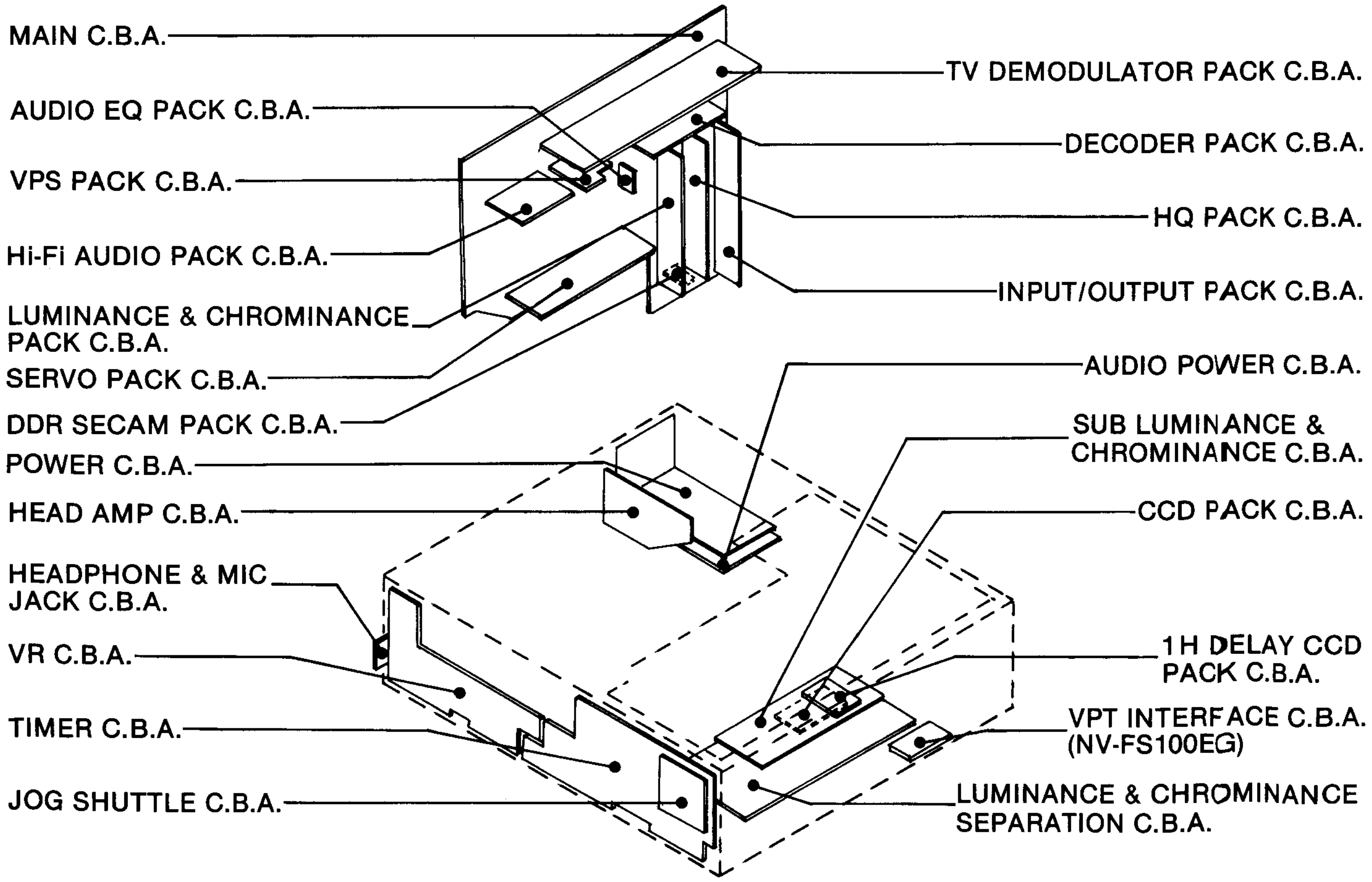
Hi-Fi AUDIO PACK C.B.A.


VR4507
R CH LEVEL
VR4509
R CH FO
MUTE LEVEL
VR4502
VR4505
VR4501
L CH LEVEL
L CH FO

VR C.B.A.


VR6501
HEADPHONE
VR3004
PICTURE CTL
VR6503
REC LEVEL

CIRCUIT BOARD LAYOUT


MAIN C.B.A.
AUDIO EQ PACK C.B.A.
VPS PACK C.B.A.
Hi-Fi AUDIO PACK C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
SERVO PACK C.B.A.
DDR SECAM PACK C.B.A.
POWER C.B.A.
HEAD AMP C.B.A.
HEADPHONE & MIC JACK C.B.A.
VR C.B.A.
TIMER C.B.A.
JOG SHUTTLE C.B.A.
TV DEMODULATOR PACK C.B.A.
DECODER PACK C.B.A.
HQ PACK C.B.A.
INPUT/OUTPUT PACK C.B.A.
AUDIO POWER C.B.A.
SUB LUMINANCE & CHROMINANCE C.B.A.
CCD PACK C.B.A.
1H DELAY CCD PACK C.B.A.
VPT INTERFACE C.B.A. (NV-FS100EG)
LUMINANCE & CHROMINANCE SEPARATION C.B.A.

2-3. ELECTRICAL ADJUSTMENT PROCEDURES

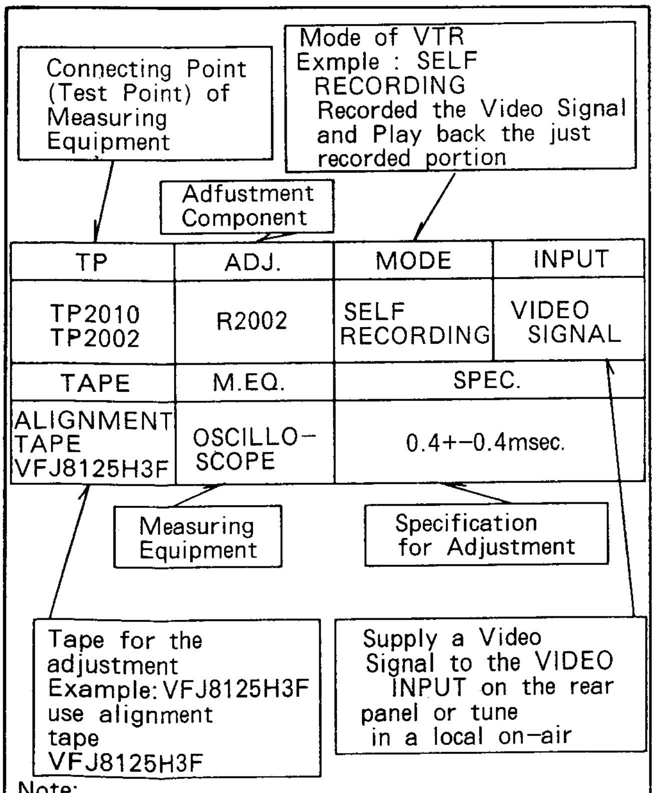
This section provides complete electrical adjustment procedures which may be required for electronic circuits of S-VHS Video Cassette Recorders NV-FS100EG/EI.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range : 0.001 ~ 50V
2. Dual-Trace Oscilloscope
   Voltage range : 0.005 ~ 50V/div.
   Frequency Range : DC-30MHz
   Probes : 10:1
3. Frequency counter
   Frequency Range : 0 ~ 10MHz
4. Signal Generator (Sinewave)
   Frequency Range : 0 ~ 500KHz
5. Video Sweep Generator
   Frequency Range : 0 ~ 10MHz
6. Colour Monitor TV
7. Plaastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)
9. Pattern Generator
10. VHS Blank Tape
11. S-VHS Blank Tape

2-3-2. HOW TO READ THE ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR
Exmple : SELF RECORDING
Recorded the Video Signal and Play back the just recorded portion
Adfustment Component
TP
ADJ.
MODE
INPUT
TP2010
TP2002
R2002
SELF RECORDING
VIDEO SIGNAL
TAPE
M.EQ.
SPEC.
ALIGNMENT TAPE VFJ8125H3F
OSCILLO-SCOPE
0.4+-0.4msec.
Measuring Equipment
Specification for Adjustment
Tape for the adjustment
Example: VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air

Note:
If ☒ appears in any block, this means it is not used or not important.

Fig. E1

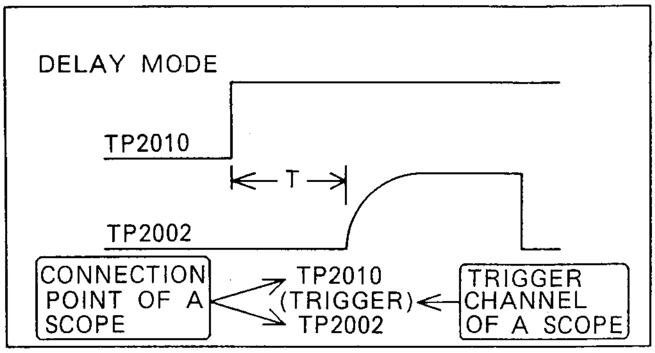

DELAY MODE
TP2010
T
TP2002
CONNECTION POINT OF A SCOPE
TP2010
(TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig. E2

Note:
Befor the electrical adjustment, set the VTR as following conditions except for especial instructions in each adjustment item.

1. Picture sharpness VR ... Centre FIX position
   S-VHS Selector ... ON position
2. Tape Speed Selector ... SP position
3. Audio Rec Control Selector ... AGC position
4. MPX Filter Switch ... OFF position
5. Input Signal Selector ... LINE position
6. Filter/Test Signal Switch ... ON (OFF) position
7. Edit Switch ... OFF position
8. Digital Tracking Switch ... ON position.
9. Simul Switch ... OFF position
10. Euro AV output select Switch ... Normal position

SERVO Section

2-3-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY	☒
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0+-0.5H	

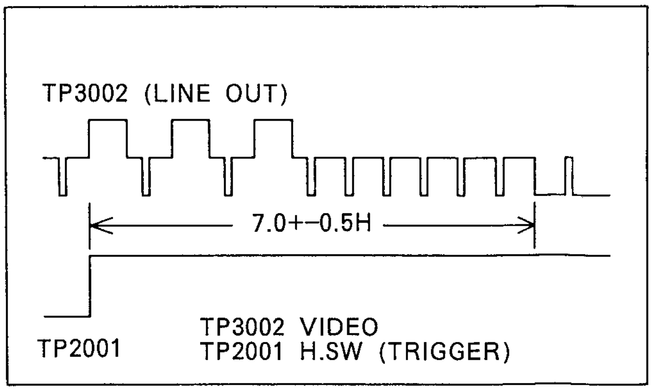

TP3002 (LINE OUT)
7.0+-0.5H
TP2001
TP3002 VIDEO
TP2001 H.SW (TRIGGER)

Fig. E3

2–3–4. SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2015	VR2013	STILL	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	453+–15(Hz)	

1. Record the Colour Bar in SP Mode and Playback the just recorded portion. Then place the unit in STILL Mode.
2. Make a test mode as shown in Fig. Test mode. Connect a cut Jumper wire.
3. Connect the jumper wire between TP2026 and GND.
4. Adjust VR2013 so that reading of the Frequency Counter is 453+–15(Hz).

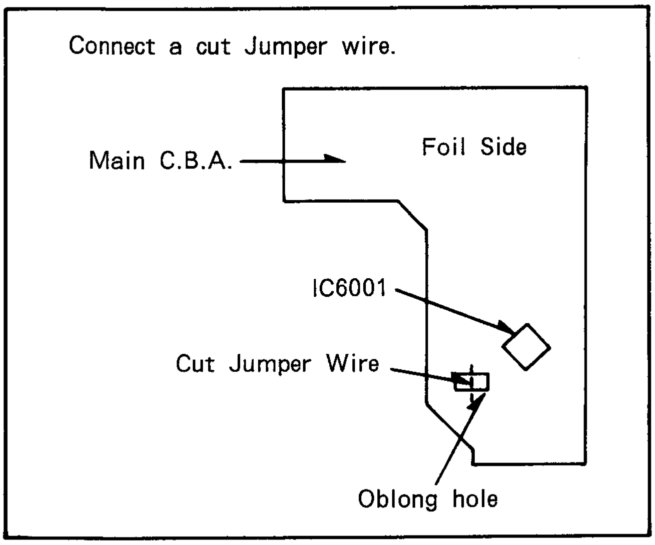


Fig. Test mode

2–3–5. VIDEO AUTO TRACKING GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
HQ PACK PIN–15	VR5003	STOP	4MHz 200mVp–p (TO TP3001)
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GEN D.V.M.	3.0+–0.1(Vp–p)	

1. Set the output of Sinewave Signal Generator to 4MHz, 200mVp–p and supply it to TP3001 through capacitor (0.1uF).
2. Connect the D.V.M. (Digital Volt Meter) to HQ PACK Pin–15.
3. Adjust VR5003 so that reading of D.V.M. is 3.0+–0.1(Vp–p).

2–3–6. ARTIFICIAL V–SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2010 (SP) VR2009 (LP)	STILL	VIDEO SIGNAL (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR	NO V–DANCING	

1. Record the Video Signal in SP Mode and playback the just recorded portion. Then place the unit in STILL Mode.
2. Adjust VR2010 so that the V–Dancing does not appear on the Monitor Screen.
3. Record the Video Signal in LP Mode and playback the just recorded portion. Then place the unit in STILL Mode.
4. Adjust VR2009 so that the V–Dancing does not appear on the Monitor Screen.

2–3–7. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 TP2026	VR2011 (SP) VR2006 (LP)	SLOW	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO–SCOPE	17.5+–2 (msec) (SP) 12+–2 (msec) (LP)	

Connect the Oscilloscope to TP2002 and TP2026.

1. Record the Colour Bar in SP Mode and playback the just recorded portion. Then place the Unit in 1/5 Speed Slow by Infra–red remote controller. (Press SEARCH button and then press ⊞ button 5 times)
2. Adjust VR2011 so that the phase difference becomes 17.5+–2 (msec) as shown in Fig. E4.
3. Record the Colour Bar in LP Mode and playback the just recorded portion. Then place the Unit in 1/5 Speed Slow by Infra–red remote controller.
4. Adjust VR2006 so that the phase difference becomes 12+–2 (msec) as shown in Fig. E4.

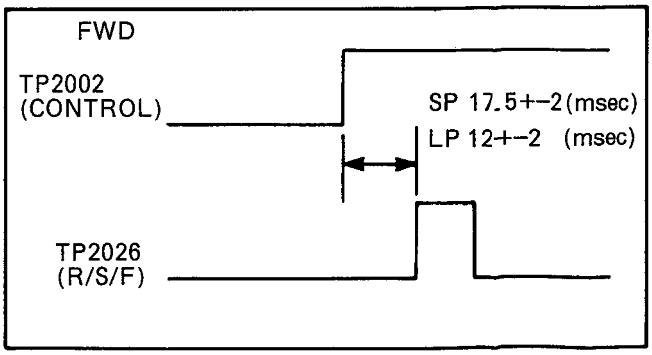


Fig. E4

2-3-8. REVERSE SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 TP2026	VR2019 (SP) VR2018 (LP)	REVERSE SLOW	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	14+-2 (msec) (SP) 7+-2 (msec) (LP)	

Connect the Oscilloscope to TP2002 and TP2026

1. Record the Colour Bar in SP Mode and playback the just recorded portion. Then place the Unit in 1/5 Reverse Slow Mode by Infra-red remote controller. (Press SEARCH button and then press ⊟ button 5 times)
2. Adjust VR2019 so that the phase differnce becomes 14+-2 (msec) as shown in Fig. E5.
3. Record the Colour Bar in LP Mode and playback the just recorded portion. Then place the Unit in 1/5 Reverse Slow Mode by Infra-red remote controller.
4. Adjust VR2018 so that the phase difference becomes 7+-2 (msec) as shown in Fig. E5.

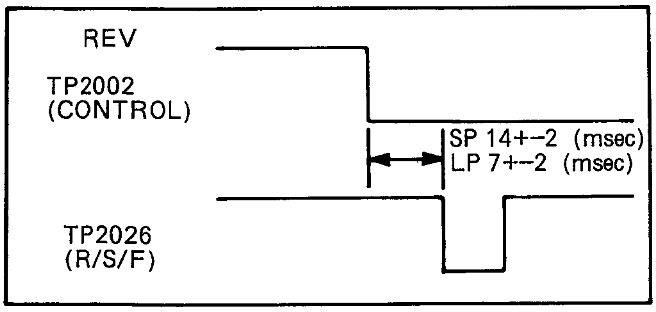


Fig. E5

LUMINANCE, CHROMINANCE & HEAD AMP Section

2-3-9. Y-NR GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3051	VR303	STOP	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	800+-20 (mVp-p) (75ohm Terminated)	

1. Supply the video signal to S-Video input socket.
2. Set the input select switch to S-IN position.
3. Connect the oscilloscope to TP3051 on Main C.B.A.
4. Adjust so that the Video Level becomes 800+-20 (mVp-p).

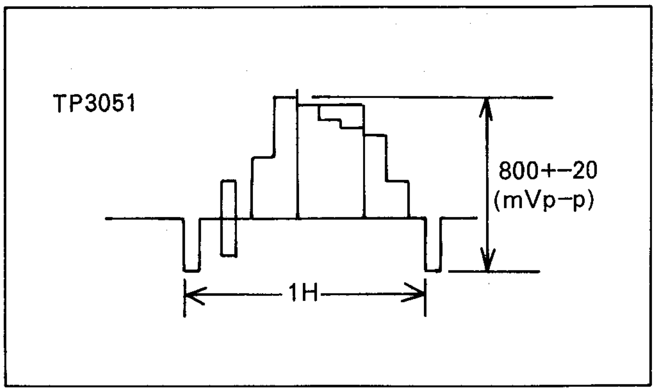


Fig. E6

Note:
This adjustment should be completed before the luminance and chrominance recording current adjustment.

2-3-10. CHROMINANCE & LUMINANCE RECORDING CURRENT ADJUSTMENT

* S-VHS CHROMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR502	RECORDING	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	28+-2mVp-p	

1. Suppy the video signal to S-Video input socket.
2. Set the input select switch to S-IN position.
3. Connect the oscilloscope to TP507 (HOT) and TP508 (GND).
4. Before Chrominance recording current adjustment Luminance recording current must be closed to observe the chrominance signal. (VR501 is minimum position.)
5. Adjust VR502 for 28+-2Vp-p as shown below.

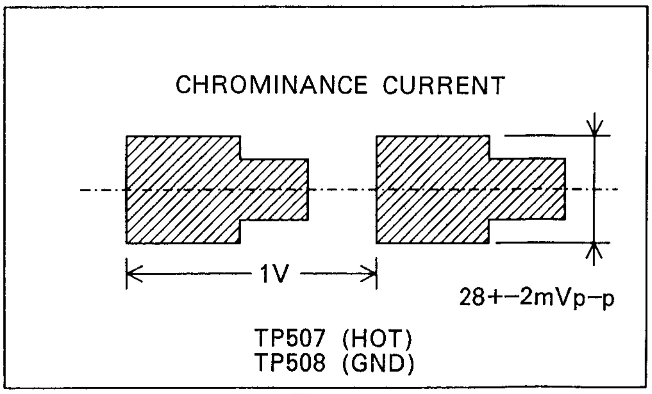


Fig. E7

* S-VHS LUMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR501	RECORDING	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	120+-5mVp-p	

6. After chrominance recording current adjustment, adjust VR501 for 120+-5mVp-p as shown below.

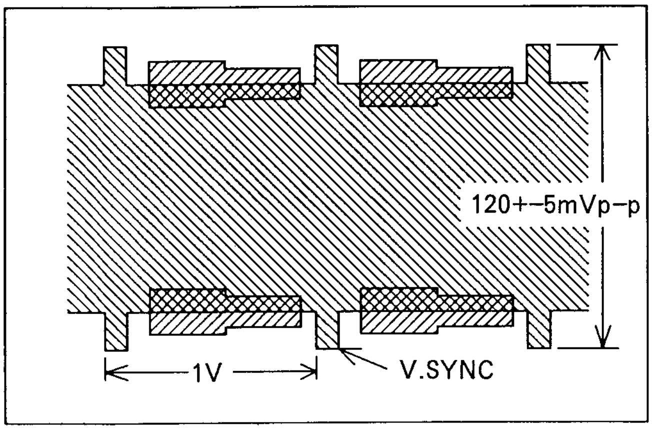


Fig. E8

* VHS LUMINANCE RECORDING CURRENT ADJ.

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR3001	RECORDING	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	110+-5mVp-p	

1. Set the S-VHS selector to OFF position.
2. Connect the oscilloscope to TP507 (HOT) and TP508 (GND).
3. Adjust VR3001 for 100+-5mVp-p as shown in Fig. E9.

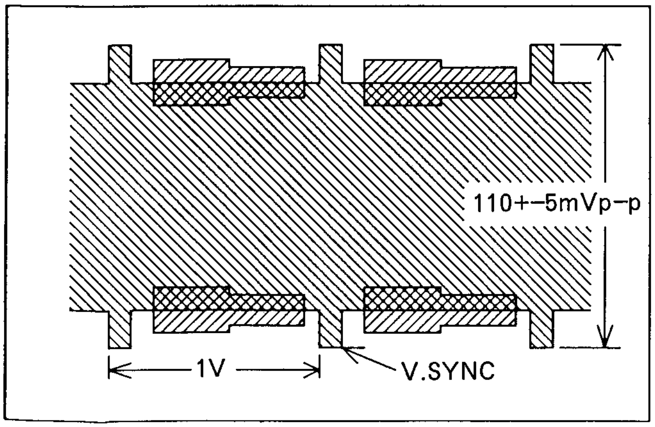


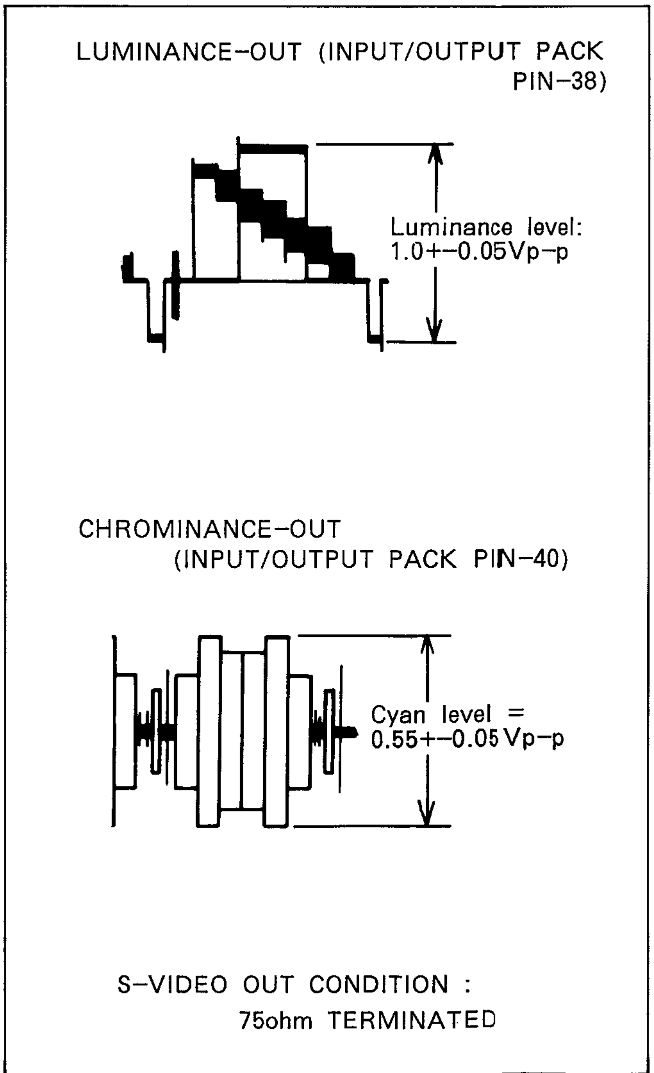
Fig. E9

This adjustment should be completed after S-VHS luminance and chrominance recording current adjustment.

2-3-11. PLAYBACK VIDEO LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
S-OUT Input/Output pack pin -38(Y) or 40(C)	VR302 (Y) VR801 (C)	SELF RECORDING	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	1.0+-0.05Vp-p (Y) 0.55+-0.05Vp-p (C)	

1. Supply the video signal to S-Video input socket.
2. Set the input select to S-IN position.
3. Connect the oscilloscope to Input/Output pack pin-38 for luminance and to pin-40 for chrominance.
4. Play back the just recorded portion.
5. Adjust VR302 for 1.0+-0.05Vp-p and VR801 for 0.55+-0.05Vp-p as shown in Fig. E10.


LUMINANCE-OUT (INPUT/OUTPUT PACK PIN-38)

CHROMINANCE-OUT (INPUT/OUTPUT PACK PIN-40)

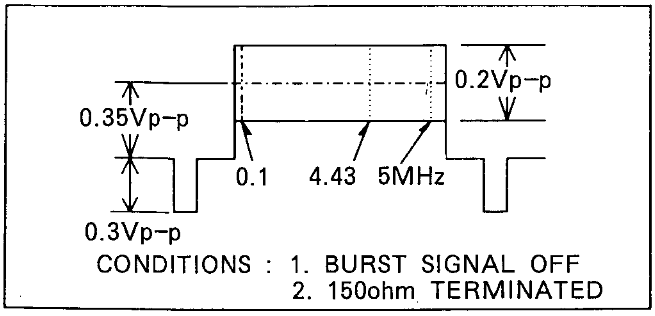
S-VIDEO OUT CONDITION : 75ohm TERMINATED

Fig. E10

2–3–12. S–VHS COS EQ ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
Input/Output Pack Pin–38	VR5002	SELF RECORDING	VIDEO SWEEP (S–VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S–VHS BLANK TAPE	OSCILLO–SCOPE	–8+–0.5dB (37.5% ~ 42%)	

1. Set the sweep generator output as shown below.



CONDITIONS : 1. BURST SIGNAL OFF
2. 150ohm TERMINATED

Fig. E11

2. Supply the video sweep signal to S–Video Input.
3. Set the Input Signal Selector to S–VHS position.
4. Playback the just recorded portion.
5. Adjust VR3101 so that the level at 5MHz becomes –8+–0.5dB (37.5 ~ 42%) comparing with the level at 0.1MHz as shown in Fig. E12.

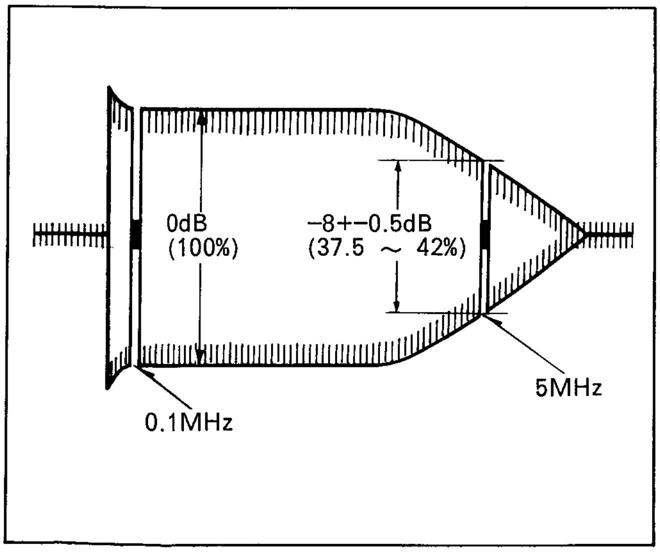
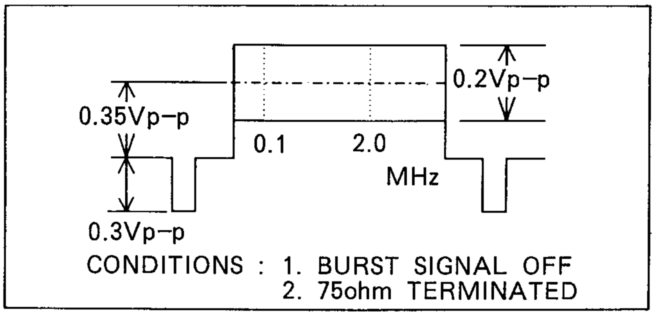


Fig. E12

2–3–13. VHS FREQUENCY RESPONSE ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
LINE OUT (TP3002)	VR5004 (SP) VR5005 (LP)	SELF RECORDING	VIDEO SWEEP (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIDEO SWEEP/ OSCILLO–SCOPE	A=0+–1dB (90~110%): SP A=0+–1dB (90~110%): LP	

1. Set the sweep generator output as shown in Fig. E13.



CONDITIONS : 1. BURST SIGNAL OFF
2. 75ohm TERMINATED

Fig. E13

2. Play back the just recorded portion.
3. Adjust volume VR5004 (SP), VR5005 (LP) resoectively so that the level at 2MHz (A) becomes within specification comparing with the level at 0.1MHz as shown in Fig. E14.

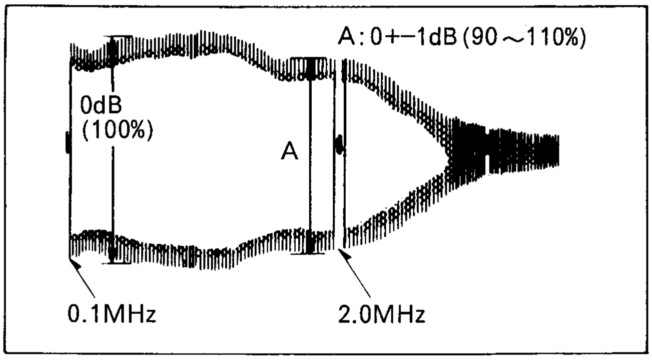


Fig. E14

2–3–14. LUMINANCE/CHROMINANCE SEPARATION AGC OUTPUT LEVEL ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
TP3704	VR3701	STOP	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
☒	OSCILLO–SCOPE	2.0+–0.05(Vp–p)	

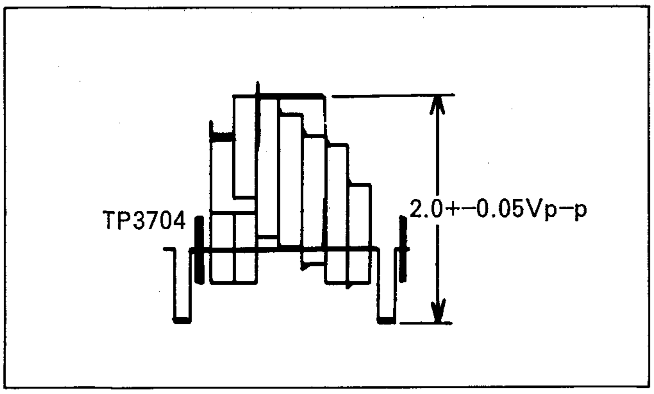


Fig. E15

2-3-15. LUMINANCE/CHROMINANCE SEPARATION CCD INPUT LEVEL ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
TP3703	VR3708	STOP	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	0.85+-0.05(Vp-p)	

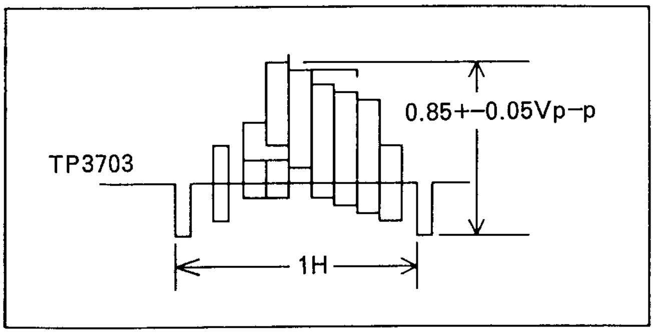


Fig. E16

2-3-16. LOGICAL COMB FILTER PHASE AND GAIN ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
TP3701	VR3702, VR3706	STOP	MULTI BURST (LINE IN)
	VR3703, VR3707		
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	4.43MHz BURST SIG IS MINIMIZED	

1. Set the video sweep generator output as shown in below.

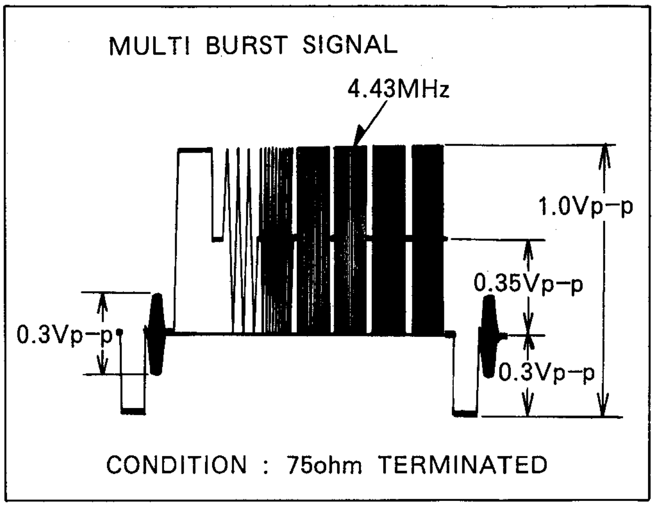


Fig. E17

2. Supply the multi burst signal from video sweep to Line Input.
3. Connect the oscilloscope to TP3701.
4. Set the Switch (SW3701) on luminance/chrominance separation C.B.A. to TEST position.
5. Adjust VR3702 and VR3706 mutually so that the 4.43MHz burst signal is minimized.
6. Set the Switch (SW3701) on luminance/chrominance separation C.B.A. to Normal position.
7. Adjust VR3703 and VR3707 mutually so that the 4.43MHz burst signal is minimized.

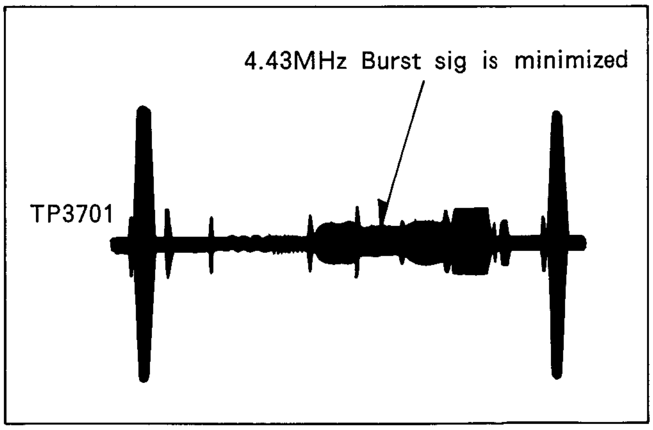


Fig. E18

2-3-17. SEPARATED LUMINANCE OUTPUT LEVEL ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
P3704-1	VR3709	STOP	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	1.0+-0.05(Vp-p)	

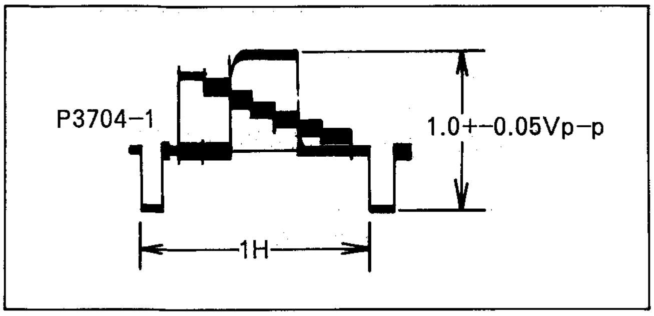


Fig. E19

2-3-18. LUMINANCE/CHROMINANCE SEPARATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
P3704-1	VR3704, VR3705	STOP	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
╳	OSCILLO-SCOPE	RESIDUAL CHROMA LEVEL IS MINIMIZED	

1. Connect the oscilloscope to P3704-1.
2. Adjust VR3704 and VR3705 mutually so that the residual chroma level is minimized as shown in Fig. E20.

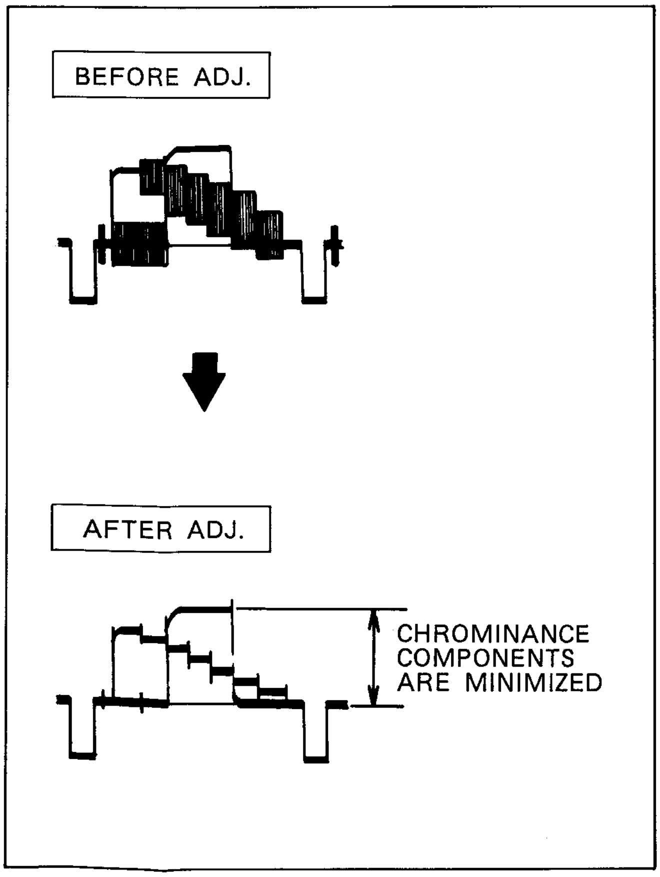


Fig. E20

2-3-19. SECAM KILLER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC851-11	T851	SELF RECORDING	SECAM VIDEO SIGNAL (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	MINIMUM AS POSSIBLE	

1. Adjust T851 so that the points "A" becomes maximum on the waveform.

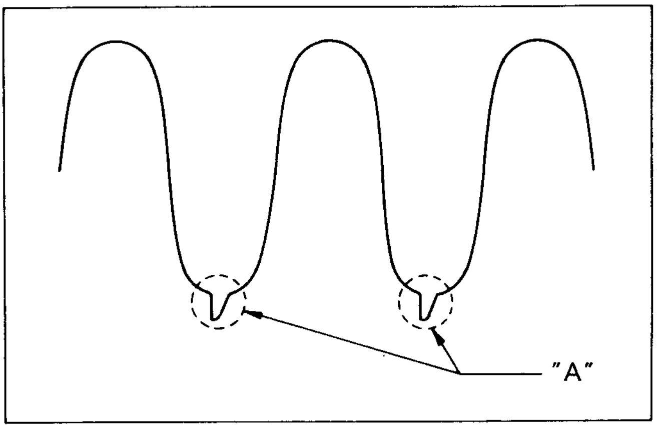


Fig. E21

2-3-20. PILOT BURST PHASE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC801-15	C833	STOP	COLOUR BAR SIGNAL (S-VIDEO INPUT)
TAPE	**M. EQ.**	**SPEC.**	
╳	VECTOR-SCOPE	-90degrees+-5degree	

1. Set the Input Signal Selector to S-VIDEO position.
2. Supply the colour bar signal to the S-Video input on the rear panel.
3. Connect the vectorscope to IC801-15 and its external terminal for trigger to Line Output of VTR.
4. Adjust C8301 so that the pilot burst signal is placed in -90+-5degree against the U-Axis on Vectorscope.

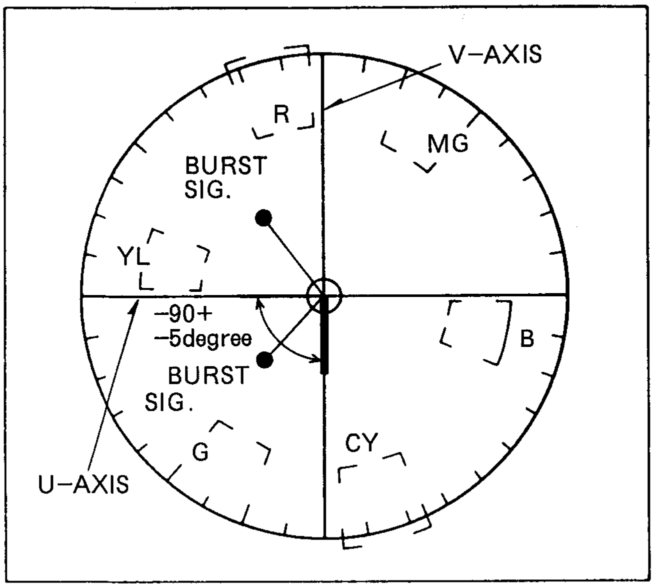


Fig. E22

2-3-21. S-VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC303-2	VR301	SELF RECORDING	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	400+-10(mVp-p)	

1. Supply the video signal to S-Video input socket.
2. Set the input select switch to S-IN position.
3. Connect the oscilloscope to IC303-2.
4. Adjust VR301 so that the luminance level becomes 400+-10mVp-p.

2-3-22. LUNINANCE NOISE REDUCTION BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3301-21	VR3301	RECORDING (LP MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Record the Colour Bar in LP Mode.
2. Connect the Oscilloscope to IC3301-21.
3. Adjust VR3301 so that waveform becomes minimum.

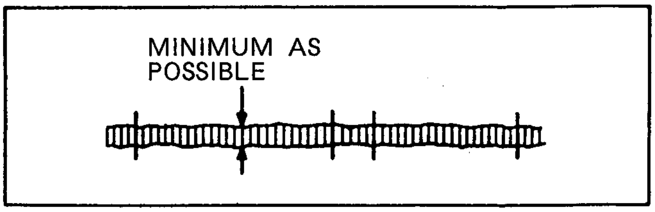


Fig. E23

2-3-23. LUMINANCE NOISE REDUCTION GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
P3301-1 and 4	VR3302	STOP (LP)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
☒	OSCILLO-SCOPE	A Level = B Level	

1. Supply the colour bar signal to Line Input.
2. Connect the oscilloscope to P3301-1 (CH-A) and P3301-4 (CH-B).
3. Adjust VR3302 so that the luminance level between "A" and "B" are the same level.

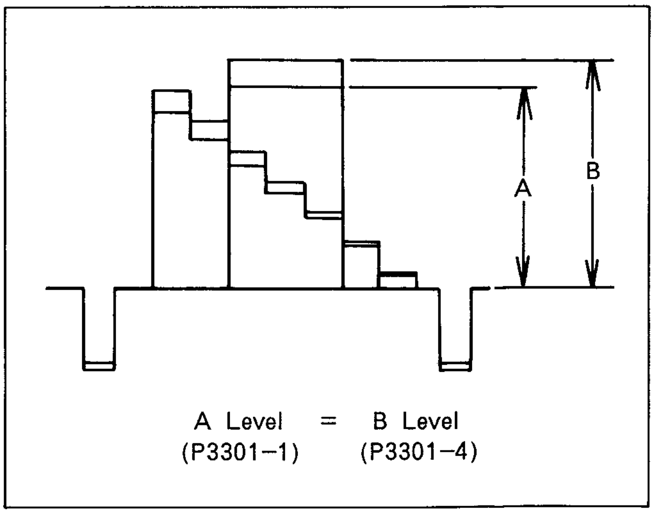


Fig. E24

2-3-24. CHROMINANCE RECURSIVE FILTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3301-7	VR8301 VR8302	SELF RECORDING	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Supply the colour bar signal to Line Input socket.
2. Play back the just recorded portion.
3. Connect the oscilloscope to IC3301-7.
4. Adjust VR8301 and VR8302 mutually so that the waveform is minimized.

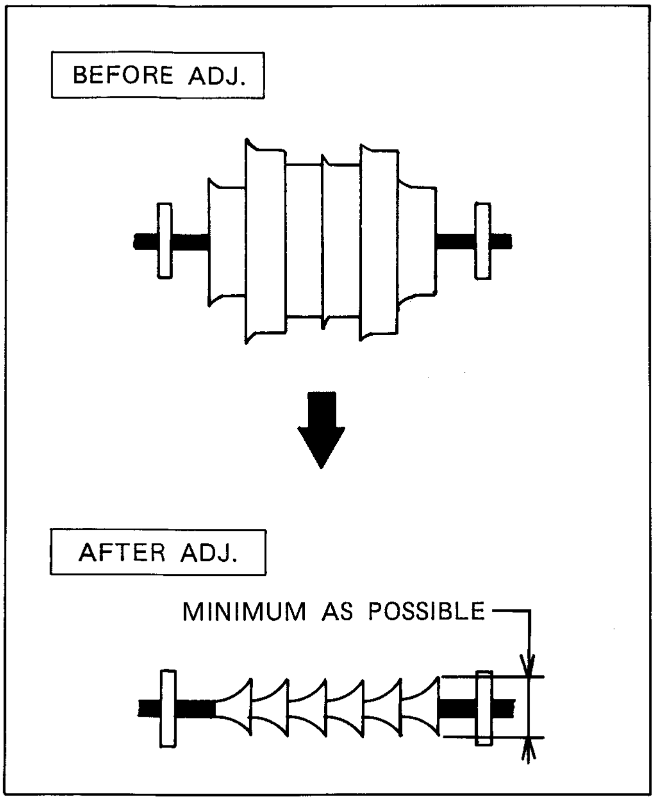


Fig. E25

Note:
This adjust should be completed after all adjustment of recording mode.

2-3-25. SUPER LIMITER ADJUSTMENT

TP	ADJ.	MODE	INPUT
HQ PACK PIN-20	VR5001	SELF RECORDING	SINEWAVE (7MHz, 200mVp-p)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	SIGNAL GENERATOR/ OSCILLOSCOPE	100+-10mVp-p	

1. Set the signal generator to 7MHz,200mVp-p and then supply this sinewave to TP5001 on HQ PACK C.B.A.
2. Set the input select switch to S-IN position.
3. Connect the 0.1uF capacitor between IC5002-8 and GND.
4. Connect the Oscilloscope to pin 20 of HQ PACK PIN.
5. Play back the just recorded portion.
6. Adjust VR5001 so that the waveform level becomes 100+-10mVp-p.

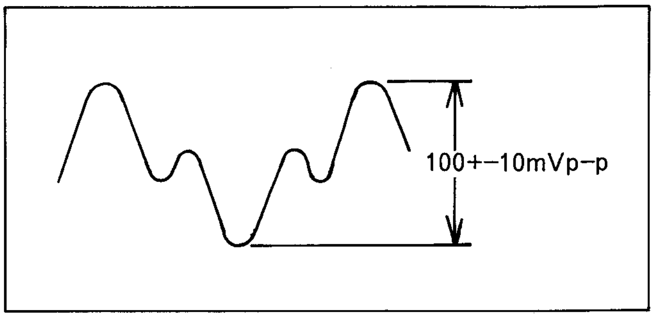


Fig. E26

2-3-26. JUMP VCO FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3503-10	VR3502	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	31.50+-0.5(KHz)	

1. Connect the Frequency Counter to pin 10 of IC3503 through the amplifier as shown below.

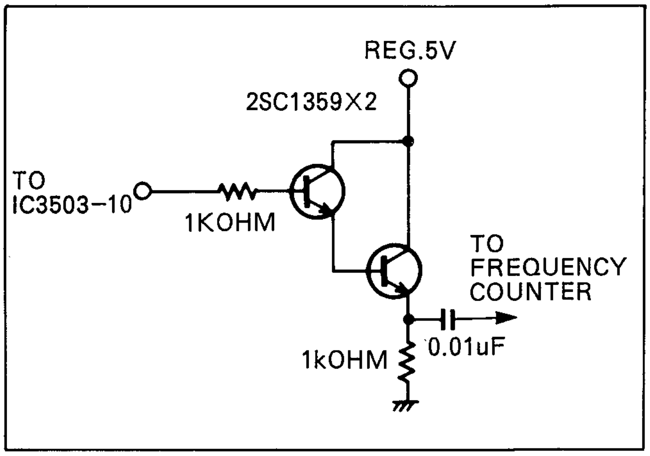


Fig. E27 Amplifier Circuit

2. Adjust VR3502 so that the reading of Frequency Counter is 31.50+-0.5KHz

2-3-27. JUMP OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
Input/Output Pack Pin-38	VR3503	SELF RECORDING	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	1.0+-0.05(Vp-p)	

1. Play back the just recorded portion.
2. Adjust VR3503 so that the luminance level becomes 1.0+-0.05Vp-p.

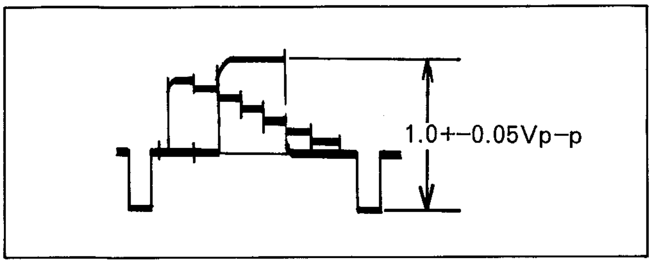


Fig. E28

2-3-28. JUMP DELAY LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
Input/Output Pack Pin-38	VR3501	SELF RECORDING (LP)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	FLICKER IS MINIMIZED	

1. Set the Tape Speed Select to "LP" mode.
2. Play back the just recorded portion in Cue mode.
3. Adjust VR3501 so that the flicker of luminance signal is minimized.

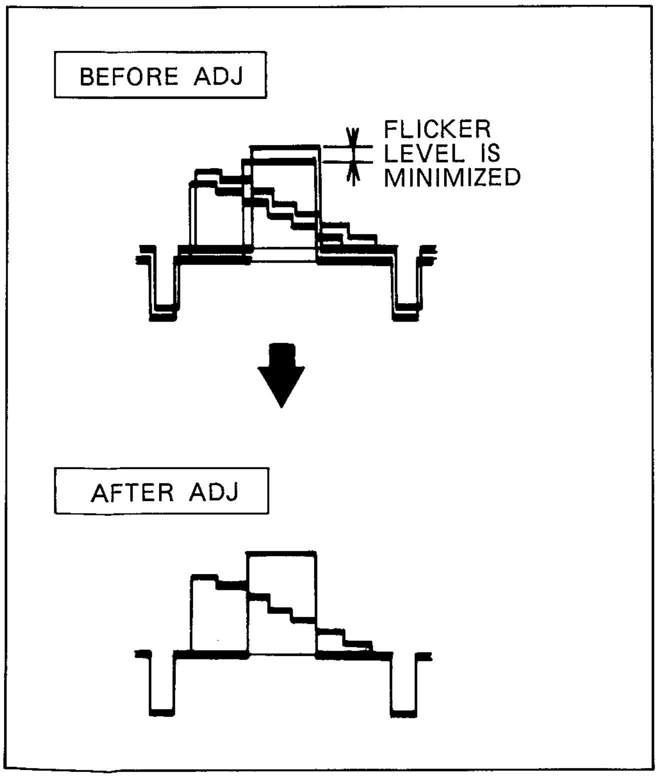


Fig. 29

2-3-29. CHROMA DELAY LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
Input/Output Pack Pin-40	VR8502 VR8503	SELF RECORDING (LP)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	FLICKER IS MINIMIZED	

1. Set the tape speed select to LP mode.
2. Play back the just recorded portion and adjust VR8502 so that the flicker is minimized.
3. Next, place the unit to cue mode and adjust VR8503 so that the flicker is minimized.

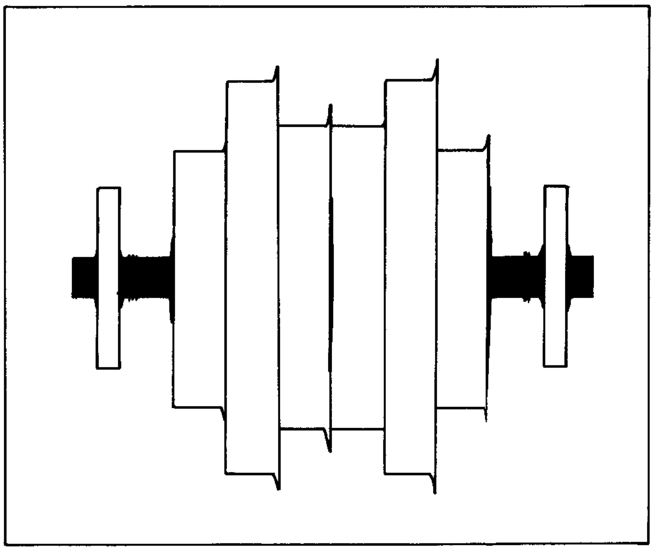


Fig. E30

TIMER Section

2-3-30. TIMER CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7501-(37)	C7501		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUE-NCY COUNTER	7812.5+-0.015us	

Note:
1) Do not connect the AC power plug.
2) Make a short circuit at C1003 to discharge.

1. Set the voltage of the DC power supply for 5.0V+-0.1V and supply it to P7501-3 P7501-4 (+) and GND (-).
2. Connect a jumper wire between P7501-6 and GND.
3. Connect the frequency counter to TP7501.
4. Adjust C7501 for 7812.5+-0.015us.

NORMAL AUDIO Section

2–3–31. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE (VHS type)	V.T.V.M.	2.6+–0.1mVrms	

Note:

1) Make a short circuit at terminal of the Audio Input.

2–3–32. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT	VR4001	SELF RECORDING (SP MODE)	1kHz,–10dB AUDIO SIGNAL VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E–E LEVEL = –8+–2dB (300mVrms ~ 500mVrms) PLAYBACK LEVEL = E–E LEVEL+–0.5dB (+–20mVrms)	

1. Set the Audio Playback Mode Selector to NORMAL position by infrared remotecontroller. (Both the Left and Right Indicators are not it.
2. Playback the just recorded portion.
3. Adjust VR4001 so that the level of the playback waveform becomes E–E level+–0.5dB(+–20mVrms)

Note:

1. Befor this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.
2. Video signal must be connected to video input.

Hi-Fi AUDIO Section

2–3–33. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
LEVEL METER	VR4004	STOP	1kHz –10dB
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GENERATOR	0dB indicator just lights up	

1. Set the Audio Playback Mode Selector to STEREO position by infrared remotecontroller. (Both the Left and Right Indicators are lit.
2. Set the Audio recording SW to MANUAL. Next Adjust the output level with the Audio Rec Level Controls so that the audio outputs are 400mVrms at both Output Jacks (L) and (R).
3. Adjust VR4004 so that the 0dB indicator just lights up on the level meter as shown below.

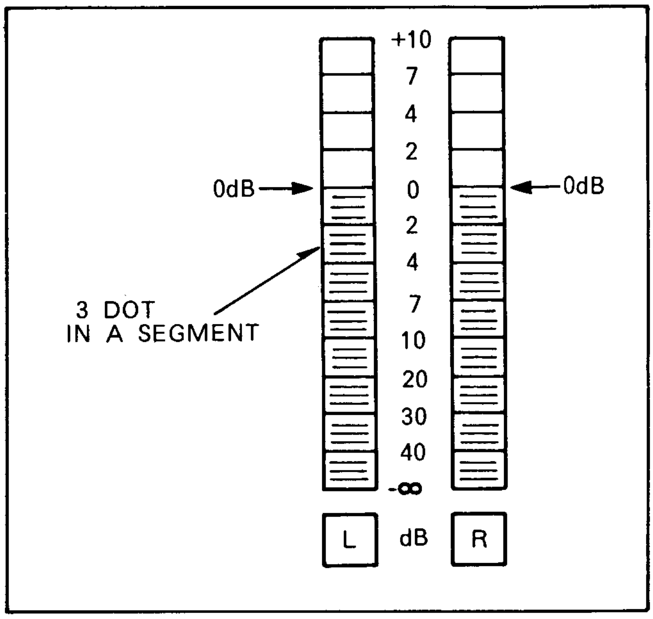


Fig. E31

2–3–34. Hi–Fi AUDIO RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507 (HOT) SHIELD CASE(GND)	VR4503	RECORDING (SP MODE)	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLOSCOPE	480+–10mVp–p	

1. Set the Input Select SW to LINE.
2. Set the Audio Playback Mode Selector to "STEREO" position. (Both the Left and Right Indicators are lit.)
3. Connect the OSCILLOSCOPE to TP4507 (HOT) and SHIELD CASE (GND).
4. Adjust VR4503 so that the Audio recording current become 480+–10mVp–p as shown below.

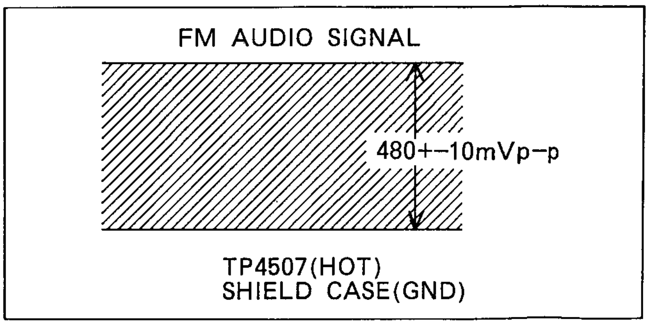


Fig. E32

Note:
Prior to HiFi Audio Muting Adjustment, this adjustment must be completed.

2-3-35. AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4511 TP2001	VR4510	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8 125H3F	OSCILLO-SCOPE	$T = \frac{T2-(T2-T1)}{2}$ msec.	

1. Play back the alignment tape (VFJ8125H3F).
2. Connect the oscilloscope to TP4511 and TP2001.
3. Play back the just recorded portion.
4. Adjust VR4510 while Instening to the stereo playback sound.
   (1) Confirm the "T2" time when the abnormal sound just occurs during turning clockwise on VR4510.
   (2) Confirm the "T1" time when the abnormal sound just occurs during turning counter clockwise on VR4510.
   (3) Adjust VR4510 so that the falling edge "T" of Audio H.SW pulse becomes the center portion of the both "T2" and "T1".

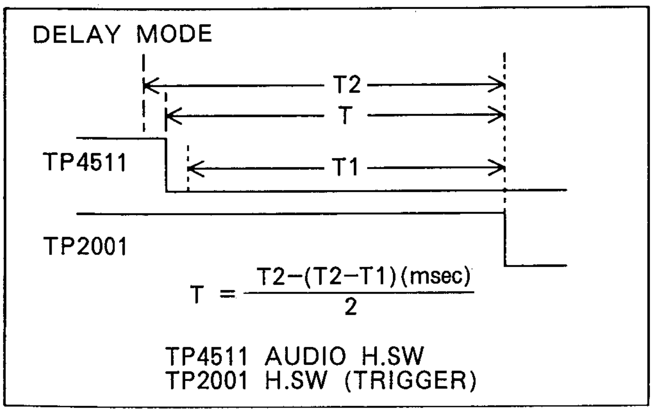


Fig. E33

2-3-36. AUDIO MUTING ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR4505	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	STEREO indication just lights up	

Note 1:
Before this adjustment "Tape Interchangeability Adjustment" must be completed.

Note2:
To achieve this adjustment, the luminance recording current adjustment should be performed as follows.
First connect the oscilloscope to TP503 (HOT) and TP504 (GND) and then adjust VR501 for 150mVp-p [refer to S-VHS Luminance Recording current Adjustment (Item 2-4-12)].
After this adjustment, the luminance recording current adjustment must be returned to original position again.

1. Set Audio Playback Mode Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Preadjust VR4505 until the Hi-Fi indicator on the front panel display turns the NORMAL indication.
3. Then slowly adjust VR4505 where the STEREO indication just lights up.
4. Confirm that the abnormal sound does not contain in the playback Hi-Fi sound.

2-3-37. Hi-Fi ADDIO CARRIER FREQUENCY ADJUSTMENT

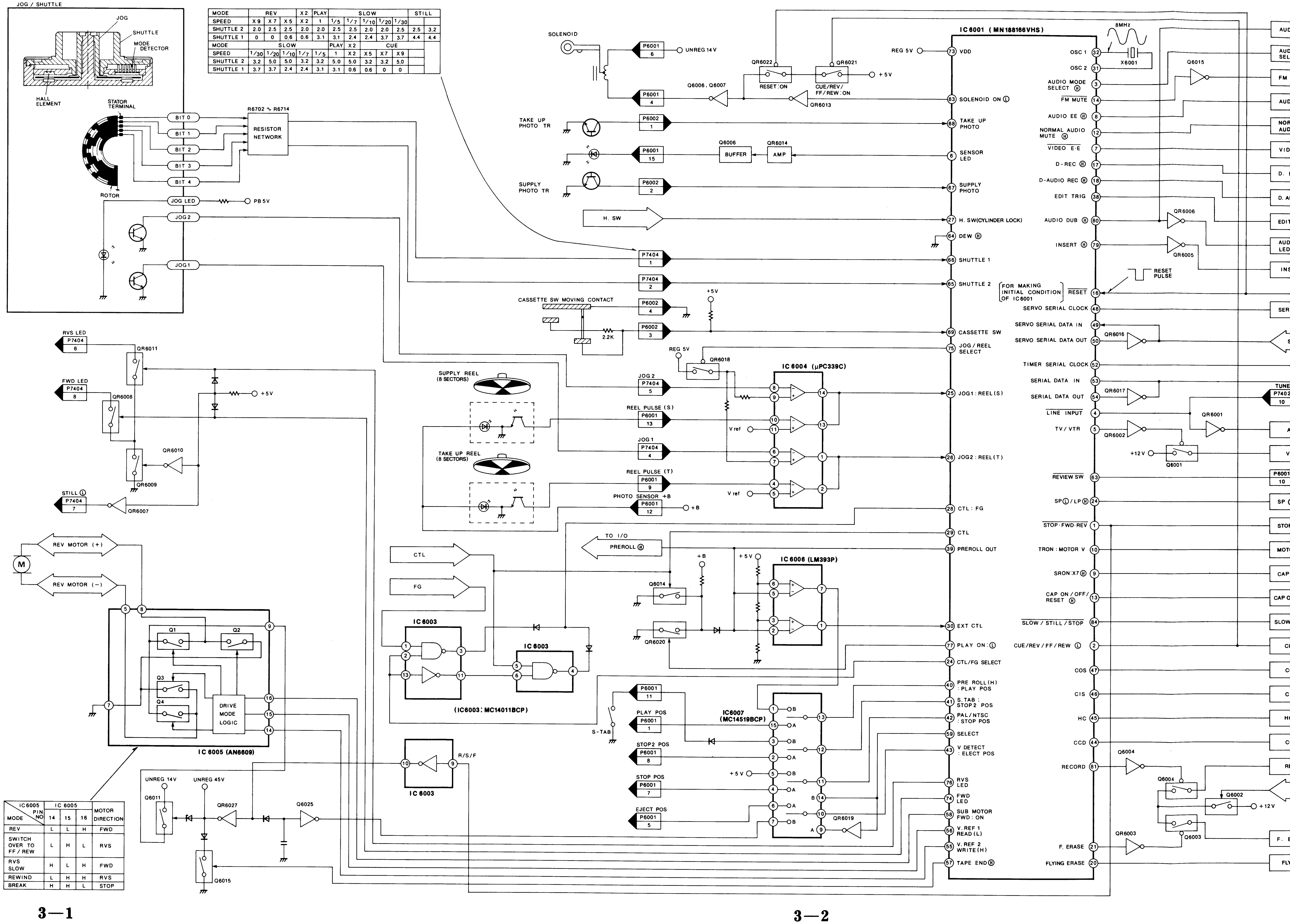
TP	ADJ.	MODE	INPUT
BETWEEN C4516 AND R4513(L) BETWEEN C4566 AND R4563(R)	VR4501(L) VR4509(R)	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUE NCY COUNTER	1400+-3KHz(L) 1800+-3KHz(R)	

2-3-38. AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN VR4502 AND R4511 (L) BETWEEN VR4507 AND R4561 (R)	VR4502(L) VR4507(R)	RECORDING	1KHz,-10dB (316mVp-p) AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERA TOR/ D.V.M.	360mVp-p	

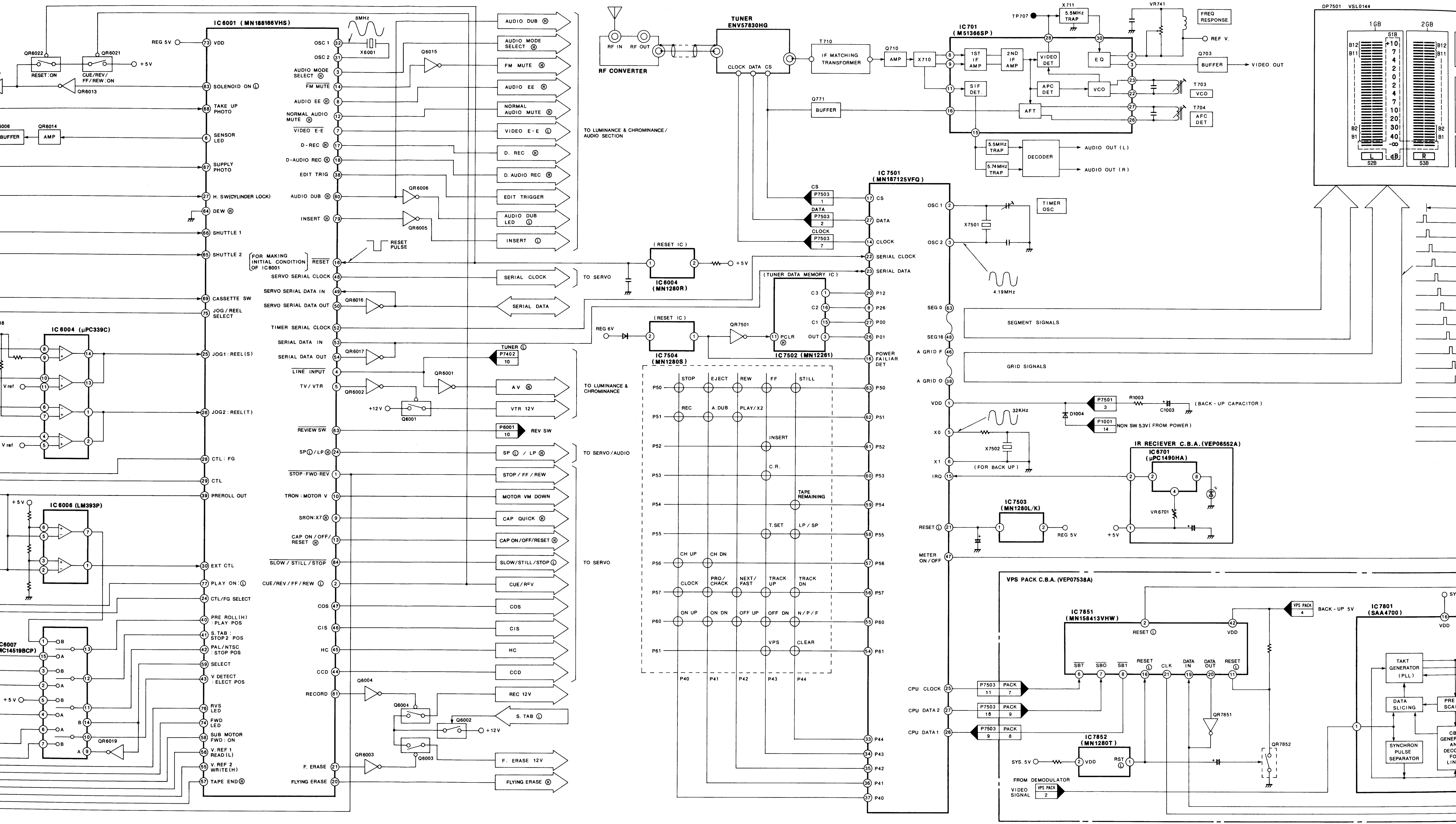
1. Set the Audio Rec Level Control Selector to MANUAL position. (Both the left and Right Indicators are not lit.)
2. Set the output of the Signal generator to 1KHz and -10dB, and supply it to both input jacks (L) and (R).
   Next, adjust the recording with the Audio Rec Level Controls so that the audio outputs are 400mVp-p at both Output Jacks (L) and (R).
3. Adjust VR4502 to 360mVp-p at between VR4502 and R4511 on HiFi AUDIO C.B.A. for L-Channel.
4. Adjust VR4507 to 360mVp-p at between VR4507 and R4561 on HiFi AUDIO C.B.A. for R-Channel.

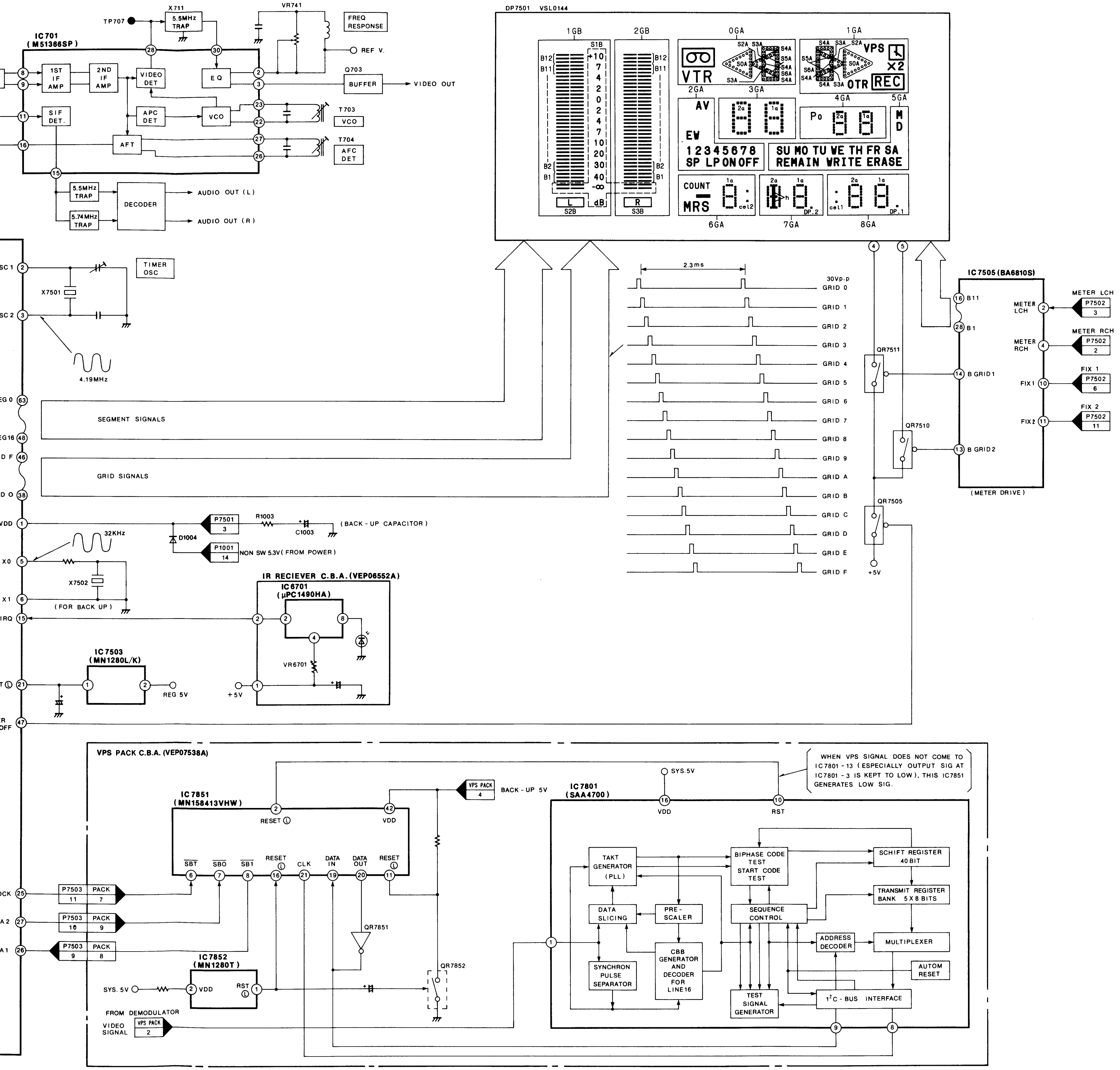
SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. SYSTEM CONTROL BLOCK DIAGRAM


JOG / SHUTTLE
JOG
SHUTTLE
MODE DETECTOR
HALL ELEMENT
STATOR TERMINAL
ROTOR
BIT 0
BIT 1
BIT 2
BIT 3
BIT 4
JOG LED
JOG 2
JOG 1
PB 5V
R6702 ∿ R6714
RESISTOR NETWORK
RVS LED
P7404
6
FWD LED
P7404
8
STILL Ⓛ
P7404
7
QR6011
QR6008
QR6010
QR6009
QR6007
+5V
REV MOTOR (+)
REV MOTOR (−)
M
Q1
Q2
Q3
Q4
DRIVE MODE LOGIC
IC 6005 (AN6609)
UNREG 14V
UNREG 45V
Q6011
QR6027
Q6025
Q6015
SOLENOID
P6001
6
UNREG 14V
P6001
4
Q6006, Q6007
QR6022
RESET : ON
QR6021
CUE/REV/FF/REW : ON
+5V
QR6013
TAKE UP PHOTO TR
P6002
1
P6001
15
Q6006
BUFFER
QR6014
AMP
SUPPLY PHOTO TR
P6002
2
H. SW
P7404
1
P7404
2
CASSETTE SW MOVING CONTACT
P6002
4
P6002
3
2.2K
+5V
REG 5V
QR6018
SUPPLY REEL (8 SECTORS)
TAKE UP REEL (8 SECTORS)
JOG 2
P7404
5
REEL PULSE (S)
P6001
13
JOG 1
P7404
4
REEL PULSE (T)
P6001
9
PHOTO SENSOR +B
P6001
12
+B
V ref
IC 6004 (μPC339C)
CTL
FG
TO I/O
PREROLL Ⓗ
IC 6003
IC 6003
(IC6003: MC14011BCP)
IC 6003
R/S/F
+B
+5V
Q6014
QR6020
IC 6006 (LM393P)
P6001
11
S-TAB
PLAY POS
P6001
1
STOP2 POS
P6001
8
STOP POS
P6001
7
EJECT POS
P6001
5
+5V
IC6007 (MC14519BCP)
QR6019
IC 6001 (MN188166VHS)
REG 5V
VDD
SOLENOID ON Ⓛ
TAKE UP PHOTO
SENSOR LED
SUPPLY PHOTO
H. SW(CYLINDER LOCK)
DEW Ⓗ
SHUTTLE 1
SHUTTLE 2
CASSETTE SW
JOG / REEL SELECT
JOG1 : REEL (S)
JOG2 : REEL (T)
CTL : FG
CTL
PREROLL OUT
EXT CTL
PLAY ON : Ⓛ
CTL/FG SELECT
PRE ROLL (H) : PLAY POS
S. TAB : STOP2 POS
PAL / NTSC : STOP POS
SELECT
V DETECT : ELECT POS
RVS LED
FWD LED
SUB MOTOR FWD : ON
V. REF 1 READ (L)
V. REF 2 WRITE (H)
TAPE END Ⓗ
8MHz
X6001
OSC 1
OSC 2
AUDIO MODE SELECT Ⓗ
FM MUTE
AUDIO EE Ⓗ
NORMAL AUDIO MUTE Ⓗ
VIDEO E-E
D-REC Ⓗ
D-AUDIO REC Ⓗ
EDIT TRIG
AUDIO DUB Ⓗ
INSERT Ⓗ
Q6015
QR6006
QR6005
RESET PULSE
FOR MAKING INITIAL CONDITION OF IC6001
RESET
SERVO SERIAL CLOCK
SERVO SERIAL DATA IN
SERVO SERIAL DATA OUT
QR6016
TIMER SERIAL CLOCK
SERIAL DATA IN
SERIAL DATA OUT
QR6017
LINE INPUT
TV / VTR
QR6002
QR6001
+12V
Q6001
TUNE
P7402
10
REVIEW SW
P6001
10
SP Ⓛ / LP Ⓗ
STOP·FWD·REV
TRON : MOTOR V
SRON : X7 Ⓗ
CAP ON / OFF / RESET Ⓗ
SLOW / STILL / STOP
CUE/REV/FF/REW Ⓛ
COS
CIS
HC
CCD
RECORD
Q6004
Q6004
Q6002
+12V
Q6003
QR6003
F. ERASE
FLYING ERASE
AUD
AUD SEL
FM
AUD
NOR AUD
VID
D.
D. A
EDIT
AUD LED
INS
SER
SP
STOP
MOTO
CAP
CAP O
SLOW
RE
F. E
FLY

MODE	REV			X 2	PLAY	SLOW					STILL	
SPEED	X 9	X 7	X 5	X 2	1	1/5	1/7	1/10	1/20	1/30		
SHUTTLE 2	2.0	2.5	2.5	2.0	2.0	2.5	2.5	2.0	2.0	2.5	2.5	3.2
SHUTTLE 1	0	0	0.6	0.6	3.1	3.1	2.4	2.4	3.7	3.7	4.4	4.4
MODE	SLOW					PLAY	X 2	CUE				
SPEED	1/30	1/20	1/10	1/7	1/5	1	X 2	X 5	X 7	X 9		
SHUTTLE 2	3.2	5.0	5.0	3.2	3.2	5.0	5.0	3.2	3.2	5.0		
SHUTTLE 1	3.7	3.7	2.4	2.4	3.1	3.1	0.6	0.6	0	0		

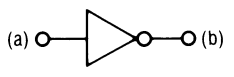
IC6005 PIN NO / MODE	IC 6005			MOTOR DIRECTION
	14	15	16	
REV	L	L	H	FWD
SWITCH OVER TO FF / REW	L	H	L	RVS
RVS SLOW	H	L	H	FWD
REWIND	L	H	H	RVS
BREAK	H	H	L	STOP


IC6001 (MN188166VHS)
REG 5V
VDD
QR6022
RESET:ON
QR6021
CUE/REV/FF/REW:ON
+5V
QR6013
SOLENOID ON Ⓛ
TAKE UP PHOTO
QR6014
BUFFER
AMP
SENSOR LED
SUPPLY PHOTO
H. SW(CYLINDER LOCK)
DEW Ⓗ
SHUTTLE 1
SHUTTLE 2
CASSETTE SW
JOG/REEL SELECT
IC6004 (μPC339C)
Vref
JOG1 : REEL(S)
JOG2 : REEL(T)
CTL : FG
CTL
PREROLL OUT
IC6006 (LM393P)
EXT CTL
PLAY ON : Ⓛ
CTL/FG SELECT
PRE ROLL(H) : PLAY POS
S. TAB : STOP2 POS
PAL/NTSC : STOP POS
SELECT
V DETECT : ELECT POS
RVS LED
FWD LED
SUB MOTOR FWD : ON
V. REF 1 READ (L)
V. REF 2 WRITE (H)
TAPE END Ⓗ
IC6007 (MC14519BCP)
QR6019
OSC 1
OSC 2
8MHz
X6001
AUDIO MODE SELECT Ⓗ
FM MUTE
AUDIO EE Ⓗ
NORMAL AUDIO MUTE Ⓗ
VIDEO E-E
D-REC Ⓗ
D-AUDIO REC Ⓗ
EDIT TRIG
AUDIO DUB Ⓗ
INSERT Ⓗ
Q6015
QR6006
QR6005
AUDIO DUB Ⓗ
AUDIO MODE SELECT Ⓗ
FM MUTE Ⓗ
AUDIO EE Ⓗ
NORMAL AUDIO MUTE Ⓗ
VIDEO E-E Ⓛ
D. REC Ⓗ
D. AUDIO REC Ⓗ
EDIT TRIGGER
AUDIO DUB LED Ⓛ
INSERT Ⓛ
TO LUMINANCE & CHROMINANCE / AUDIO SECTION
RESET PULSE
FOR MAKING INITIAL CONDITION OF IC6001
RESET
SERVO SERIAL CLOCK
SERVO SERIAL DATA IN
SERVO SERIAL DATA OUT
QR6016
SERIAL CLOCK
SERIAL DATA
TO SERVO
TIMER SERIAL CLOCK
SERIAL DATA IN
SERIAL DATA OUT
QR6017
LINE INPUT
TV/VTR
QR6002
QR6001
+12V
Q6001
TUNER Ⓛ
P7402 10
AV Ⓗ
VTR 12V
TO LUMINANCE & CHROMINANCE
REVIEW SW
P6001 10
REV SW
SP/LP
SP Ⓛ / LP Ⓗ
TO SERVO/AUDIO
STOP·FWD·REV
TRON : MOTOR V
SRON:X7 Ⓗ
CAP ON/OFF/RESET Ⓗ
SLOW/STILL/STOP
CUE/REV/FF/REW Ⓛ
COS
CIS
HC
CCD
STOP / FF / REW
MOTOR VM DOWN
CAP QUICK Ⓗ
CAP ON/OFF/RESET Ⓗ
SLOW/STILL/STOP Ⓛ
CUE/REV
TO SERVO
RECORD
Q6004
Q6002
REC 12V
S. TAB Ⓛ
QR6003
Q6003
F. ERASE
FLYING ERASE
F. ERASE 12V
FLYING ERASE Ⓗ
RF IN
RF OUT
RF CONVERTER
TUNER ENV57830HG
CLOCK DATA CS
T710
IF MATCHING TRANSFORMER
Q710
AMP
X710
IC701 (M51366SP)
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
SIF DET.
APC DET
VCO
AFT
Q771
BUFFER
TP707
X711
5.5MHz TRAP
VR741
FREQ RESPONSE
REF V.
Q703
BUFFER
VIDEO OUT
T703
VCO
T704
AFC DET
5.5MHz TRAP
5.74MHz TRAP
DECODER
AUDIO OUT (L)
AUDIO OUT (R)
IC7501 (MN187125VFQ)
CS
P7503 1
DATA
P7503 2
CLOCK
P7503 7
SERIAL CLOCK
SERIAL DATA
(RESET IC)
IC6004 (MN1280R)
(TUNER DATA MEMORY IC)
C3
C2
C1
PCLR Ⓗ
OUT
IC7502 (MN12261)
P12
P26
P00
P01
REG 6V
(RESET IC)
IC7504 (MN1280S)
QR7501
POWER FAILIAR DET
STOP
EJECT
REW
FF
STILL
REC
A.DUB
PLAY/X2
INSERT
C.R.
TAPE REMAINING
T.SET
LP/SP
CH UP
CH DN
CLOCK
PRO/CHACK
NEXT/FAST
TRACK UP
TRACK DN
ON UP
ON DN
OFF UP
OFF DN
N/P/F
VPS
CLEAR
P50
P51
P52
P53
P54
P55
P56
P57
P60
P61
P40
P41
P42
P43
P44
OSC 1
OSC 2
X7501
TIMER OSC
4.19MHz
SEG 0
SEG16
A GRID F
A GRID O
SEGMENT SIGNALS
GRID SIGNALS
VDD
P7501 3
R1003
C1003
(BACK-UP CAPACITOR)
D1004
P1001 14
NON SW 5.3V (FROM POWER)
X0
32KHz
X7502
X1
(FOR BACK UP)
IRQ
IR RECIEVER C.B.A. (VEP06552A)
IC6701 (μPC1490HA)
VR6701
+5V
RESET Ⓛ
IC7503 (MN1280L/K)
REG 5V
METER ON/OFF
VPS PACK C.B.A. (VEP07538A)
IC7851 (MN158413VHW)
RESET Ⓛ
VDD
VPS PACK 4
BACK-UP 5V
SBT
SBO
SBI
RESET Ⓛ
CLK
DATA IN
DATA OUT
RESET Ⓛ
CPU CLOCK
CPU DATA 2
CPU DATA 1
P7503 11
P7503 10
P7503 9
PACK 7
PACK 9
PACK 8
QR7851
IC7852 (MN1280T)
RST Ⓛ
SYS. 5V
QR7852
FROM DEMODULATOR
VIDEO SIGNAL
VPS PACK 2
IC7801 (SAA4700)
VDD
TAKT GENERATOR (PLL)
DATA SLICING
SYNCHRON PULSE SEPARATOR
DP7501 VSL0144
1GB
2GB
S1B
B12
B11
B2
B1
S2B
S3B
L
R
dB
+10
7
4
2
0
2
4
7
10
20
30
40
-∞


IC701 (M51366SP)
TP707
X711 5.5MHz TRAP
VR741
FREQ RESPONSE
REF V.
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
Q703 BUFFER
VIDEO OUT
SIF DET.
APC DET
VCO
T703 VCO
AFT
T704 AFC DET
5.5MHz TRAP
5.74MHz TRAP
DECODER
AUDIO OUT (L)
AUDIO OUT (R)
DP7501 VSL0144
1GB
2GB
0GA
1GA
2GA
3GA
4GA
5GA
6GA
7GA
8GA
S1B
S2B
S3B
VTR
VPS
OTR
REC
×2
AV
EW
Po
M D
12345678
SP LP ON OFF
SU MO TU WE TH FR SA
REMAIN WRITE ERASE
COUNT
MRS
dB
TIMER OSC
X7501
4.19MHz
2.3ms
30Vp-p
GRID 0
GRID 1
GRID 2
GRID 3
GRID 4
GRID 5
GRID 6
GRID 7
GRID 8
GRID 9
GRID A
GRID B
GRID C
GRID D
GRID E
GRID F
SEGMENT SIGNALS
GRID SIGNALS
QR7511
QR7510
QR7505
+5V
IC7505 (BA6810S)
METER LCH
METER RCH
B GRID1
B GRID2
FIX 1
FIX 2
P7502
(METER DRIVE)
P7501
R1003
C1003
(BACK-UP CAPACITOR)
D1004
P1001
NON SW 5.3V (FROM POWER)
32KHz
X7502
(FOR BACK UP)
IR RECIEVER C.B.A. (VEP06552A)
IC6701 (μPC1490HA)
VR6701
IC7503 (MN1280L/K)
REG 5V
VPS PACK C.B.A. (VEP07538A)
WHEN VPS SIGNAL DOES NOT COME TO IC7801-13 (ESPECIALLY OUTPUT SIG AT IC7801-3 IS KEPT TO LOW), THIS IC7851 GENERATES LOW SIG.
SYS.5V
IC7851 (MN158413VHW)
RESET
VDD
VPS PACK 4
BACK-UP 5V
IC7801 (SAA4700)
RST
SBT SBO SB1 RESET CLK DATA IN DATA OUT RESET
P7503 PACK
QR7851
QR7852
IC7852 (MN1280T)
FROM DEMODULATOR VIDEO SIGNAL
TAKT GENERATOR (PLL)
DATA SLICING
PRE-SCALER
SYNCHRON PULSE SEPARATOR
CBB GENERATOR AND DECODER FOR LINE16
BIPHASE CODE TEST START CODE TEST
SEQUENCE CONTROL
SCHIFT REGISTER 40 BIT
TRANSMIT REGISTER BANK 5×8 BITS
ADDRESS DECODER
MULTIPLEXER
AUTOM RESET
TEST SIGNAL GENERATOR
I²C-BUS INTERFACE

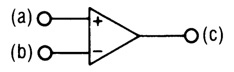
SYMBOL	TRUTH VALUE TABLE

INVERTER



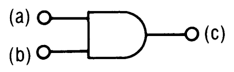
IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR



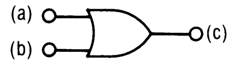
IN	(a) (b)	(a)>(b)	(a)<(b)
OUT	(c)	H	L

AND CIRCUIT



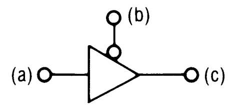
IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT



IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

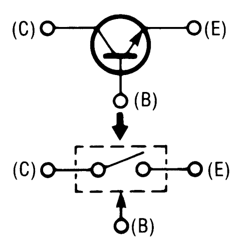
THREE STATES BUFFER



IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

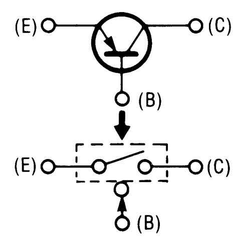
※ High Impedance

TR. SW (NPN TYPE)



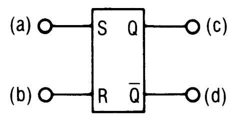
BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)



BASE	H	L
TR. SW	OFF	ON

R-S TYPE FLIP-FLOP

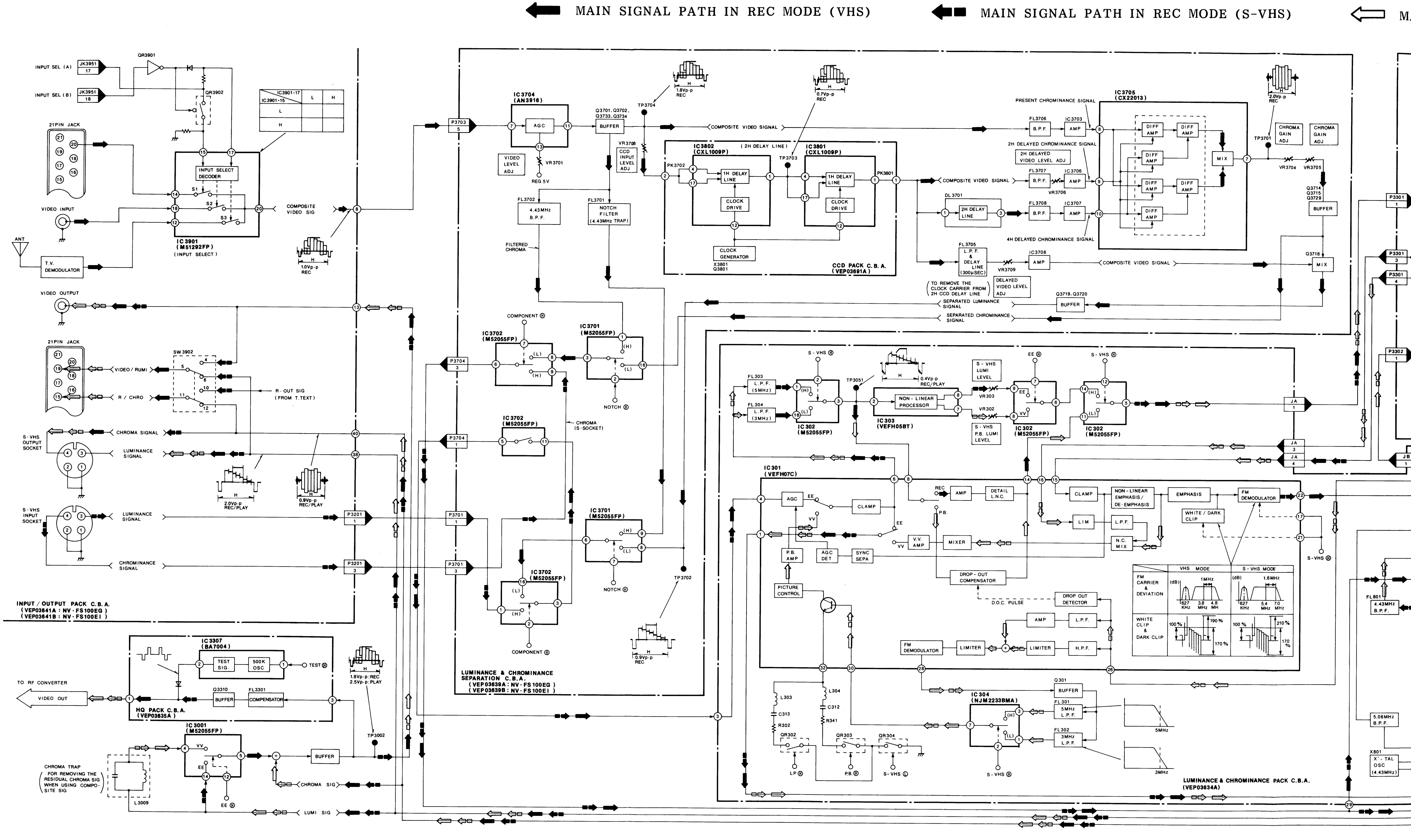


IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reverced.

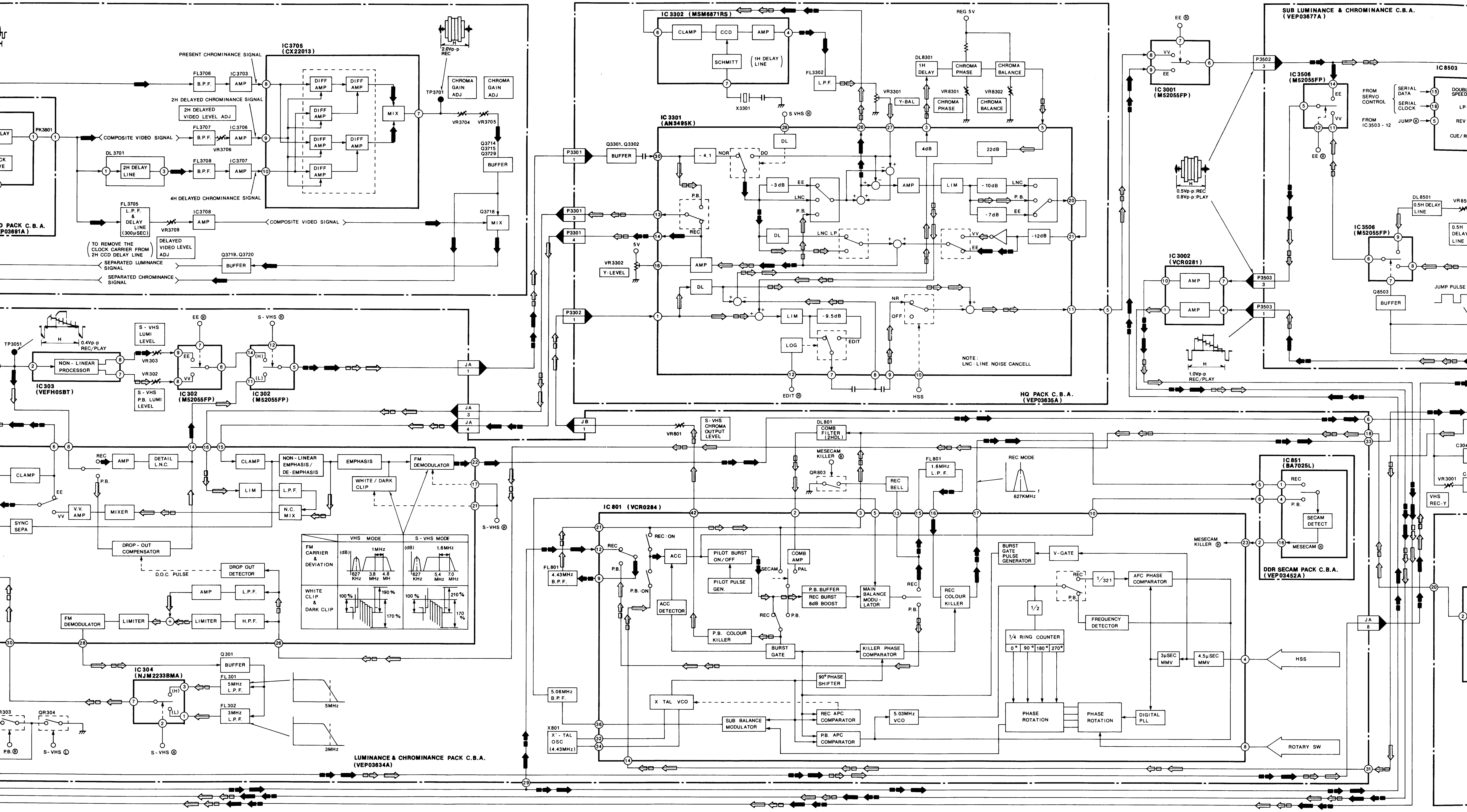
Next Page:
LUMINANCE & CHROMINANCE Section

3-2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

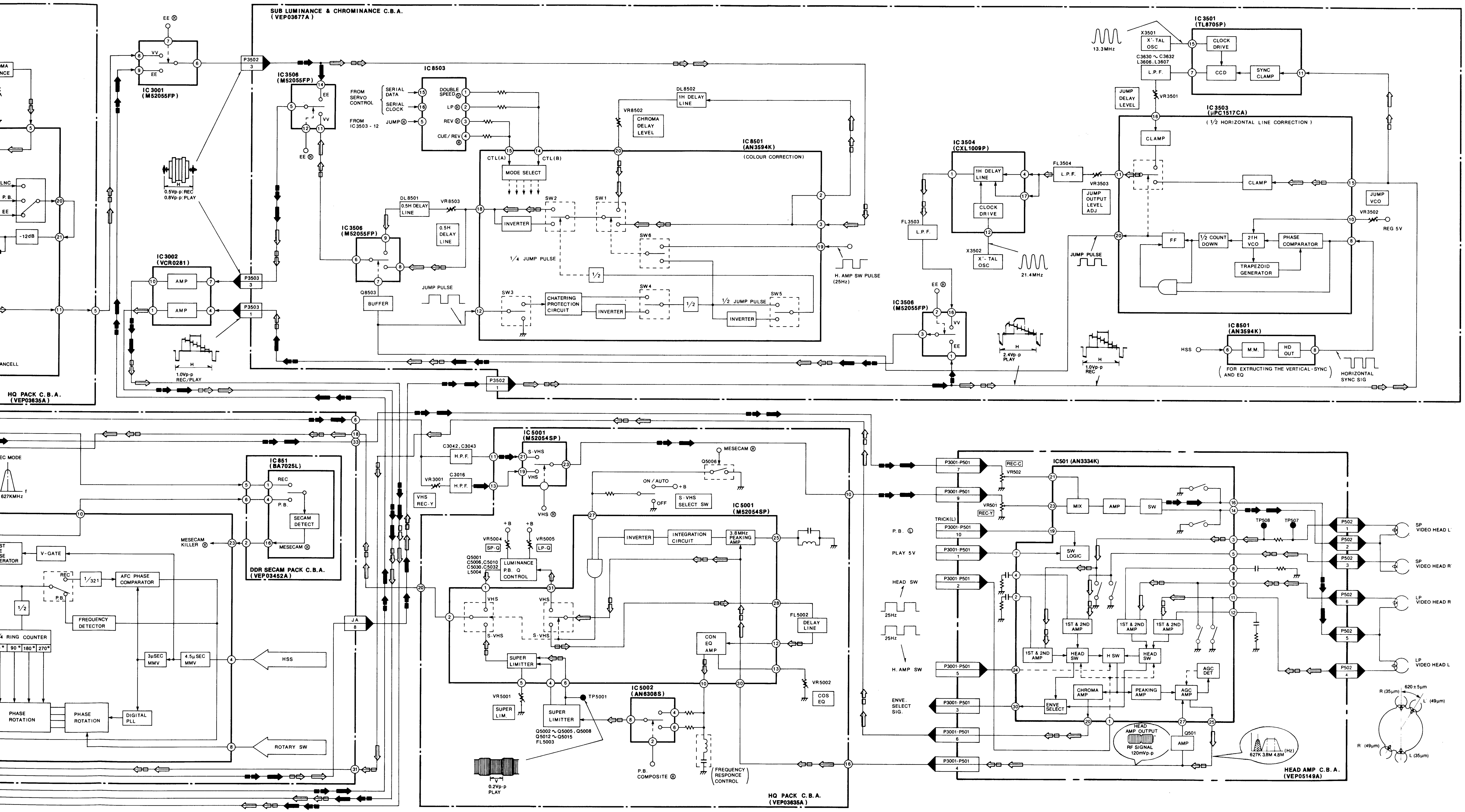


MAIN SIGNAL PATH IN REC MODE (VHS)
MAIN SIGNAL PATH IN REC MODE (S-VHS)
MA
INPUT SEL (A)
JK3951 17
INPUT SEL (B)
JK3951 18
QR3901
QR3902
IC3901-17
IC3901-15
L
H
21PIN JACK
21
20
19
18
17
16
15
INPUT SELECT DECODER
S1
S2
S3
VIDEO INPUT
ANT
T.V. DEMODULATOR
IC3901 (M51292FP) (INPUT SELECT)
COMPOSITE VIDEO SIG
1.0Vp-p REC
VIDEO OUTPUT
21PIN JACK
SW3902
VIDEO / RUMI
R / CHRO
R · OUT SIG (FROM T.TEXT)
S-VHS OUTPUT SOCKET
CHROMA SIGNAL
LUMINANCE SIGNAL
2.0Vp-p REC/PLAY
0.9Vp-p REC/PLAY
S-VHS INPUT SOCKET
LUMINANCE SIGNAL
CHROMINANCE SIGNAL
INPUT / OUTPUT PACK C.B.A. (VEP03641A : NV-FS100EG) (VEP03641B : NV-FS100EI)
IC3307 (BA7004)
TEST SIG.
500K OSC
TEST Ⓗ
Q3310 BUFFER
FL3301 COMPENSATOR
TO RF CONVERTER
VIDEO OUT
HQ PACK C.B.A. (VEP03635A)
1.8Vp-p:REC 2.5Vp-p:PLAY
TP3002
IC3001 (M52055FP)
VV
EE
BUFFER
CHROMA TRAP (FOR REMOVING THE RESIDUAL CHROMA SIG WHEN USING COMPOSITE SIG)
L3009
EE Ⓗ
CHROMA SIG
LUMI SIG
P3703 5
IC3704 (AN3916)
AGC
VIDEO LEVEL ADJ
VR3701
REG 5V
1.8Vp-p REC
TP3704
Q3701, Q3702, Q3733, Q3734
BUFFER
VR3708
CCD INPUT LEVEL ADJ
FL3702 4.43MHz B.P.F.
FL3701 NOTCH FILTER (4.43MHz TRAP)
FILTERED CHROMA
COMPOSITE VIDEO SIGNAL
IC3802 (CXL1009P)
(2H DELAY LINE)
IC3801 (CXL1009P)
0.7Vp-p REC
TP3703
PK3702
1H DELAY LINE
CLOCK DRIVE
CLOCK GENERATOR
X3801 Q3801
PK3801
CCD PACK C.B.A. (VEP03691A)
PRESENT CHROMINANCE SIGNAL
FL3706 B.P.F.
IC3703 AMP
2H DELAYED CHROMINANCE SIGNAL
2H DELAYED VIDEO LEVEL ADJ
FL3707 B.P.F.
IC3706 AMP
VR3706
COMPOSITE VIDEO SIGNAL
DL3701 2H DELAY LINE
FL3708 B.P.F.
IC3707 AMP
4H DELAYED CHROMINANCE SIGNAL
IC3705 (CX22013)
DIFF AMP
MIX
2.0Vp-p REC
TP3701
CHROMA GAIN ADJ
VR3704
VR3705
Q3714 Q3715 Q3729
BUFFER
FL3705 L.P.F. & DELAY LINE (300µSEC)
VR3709
IC3708 AMP
COMPOSITE VIDEO SIGNAL
Q3718
MIX
(TO REMOVE THE CLOCK CARRIER FROM 2H CCD DELAY LINE)
DELAYED VIDEO LEVEL ADJ
Q3719, Q3720 BUFFER
SEPARATED LUMINANCE SIGNAL
SEPARATED CHROMINANCE SIGNAL
P3301 1
P3301 3
P3301 4
P3302 1
COMPONENT Ⓗ
IC3702 (M52055FP)
(L)
(H)
IC3701 (M52055FP)
P3704 3
NOTCH Ⓗ
IC3702 (M52055FP)
CHROMA (S-SOCKET)
P3704 1
P3201 1
P3201 3
P3701 1
P3701 3
IC3701 (M52055FP)
NOTCH Ⓗ
IC3702 (M52055FP)
COMPONENT Ⓗ
TP3702
0.9Vp-p REC
LUMINANCE & CHROMINANCE SEPARATION C.B.A. (VEP03639A : NV-FS100EG) (VEP03639B : NV-FS100EI)
S-VHS Ⓗ
FL303 L.P.F. (5MHz)
FL304 L.P.F. (3MHz)
IC302 (M52055FP)
TP3051
0.4Vp-p REC/PLAY
NON-LINEAR PROCESSOR
IC303 (VEFH05BT)
S-VHS LUMI LEVEL
VR303
VR302
S-VHS P.B. LUMI LEVEL
EE Ⓗ
IC302 (M52055FP)
S-VHS Ⓗ
IC302 (M52055FP)
JA 1
JA 3
JA 4
JB
IC301 (VEFH07C)
AGC
CLAMP
REC
AMP
DETAIL L.N.C.
P.B.
V.V. AMP
MIXER
P.B. AMP
AGC DET
SYNC SEPA
DROP-OUT COMPENSATOR
PICTURE CONTROL
D.O.C. PULSE
DROP OUT DETECTOR
CLAMP
NON-LINEAR EMPHASIS / DE-EMPHASIS
EMPHASIS
FM DEMODULATOR
WHITE / DARK CLIP
LIM
L.P.F.
N.C. MIX
S-VHS Ⓗ
FM CARRIER & DEVIATION
VHS MODE
S-VHS MODE
1MHz
627 KHz
3.8 MHz
4.8 MH
1.6MHz
5.4 MHz
7.0 MHz
WHITE CLIP & DARK CLIP
100%
190%
170%
210%
AMP
L.P.F.
FM DEMODULATOR
LIMITER
LIMITER
H.P.F.
L303
C313
R302
L304
C312
R341
QR302
QR303
QR304
LP Ⓗ
P.B. Ⓗ
S-VHS Ⓛ
Q301 BUFFER
IC304 (NJM2233BMA)
FL301 5MHz L.P.F.
FL302 3MHz L.P.F.
5MHz
3MHz
S-VHS Ⓗ
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03634A)
FL801 4.43MHz B.P.F.
5.06MHz B.P.F.
X801 X'-TAL OSC (4.43MHz)

VHS)   MAIN SIGNAL PATH IN REC MODE (S-VHS)   MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)   MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

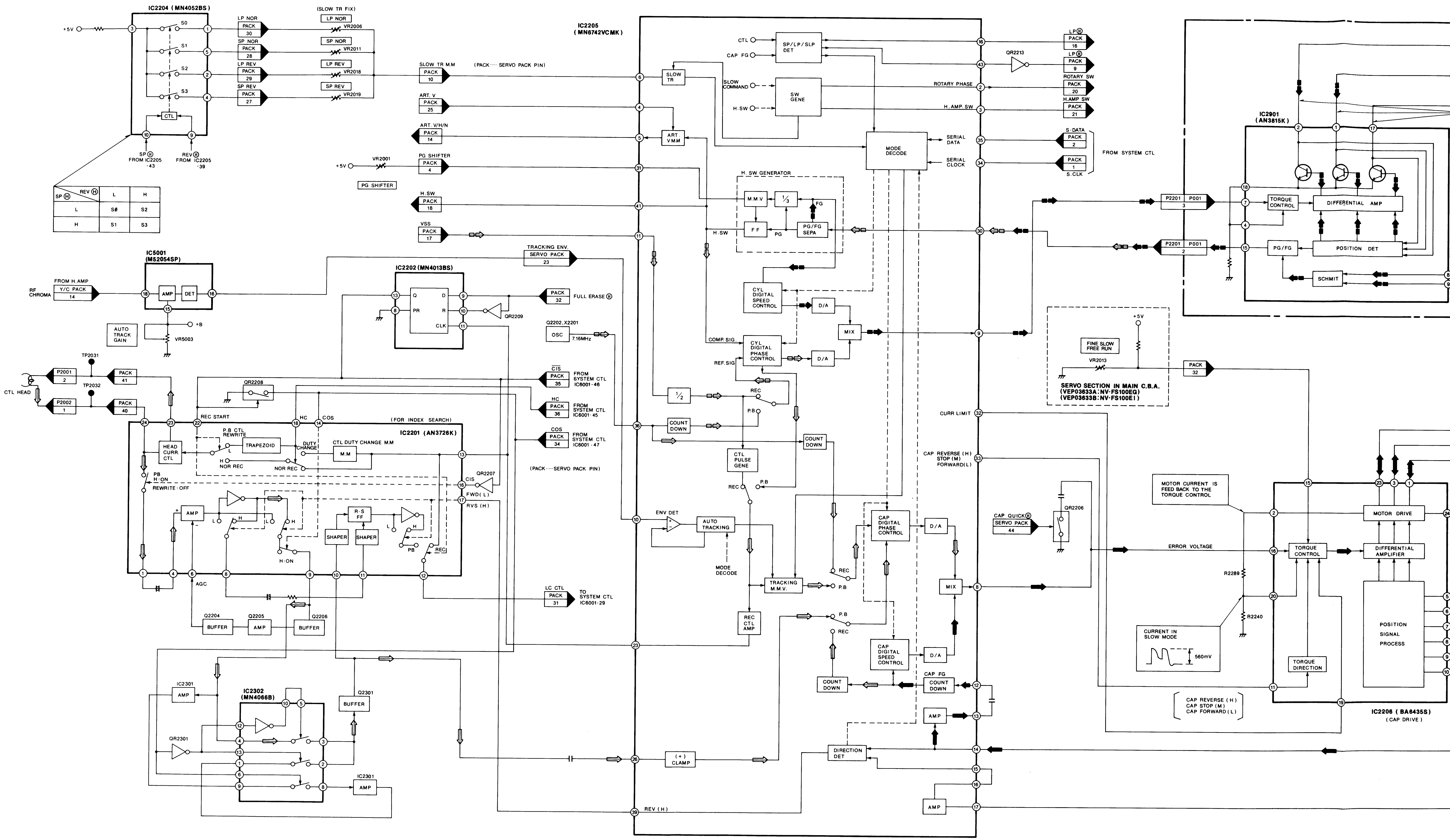

IC3705 (CX22013)
PRESENT CHROMINANCE SIGNAL
2H DELAYED CHROMINANCE SIGNAL
4H DELAYED CHROMINANCE SIGNAL
DIFF AMP
MIX
CHROMA GAIN ADJ
2H DELAYED VIDEO LEVEL ADJ
COMPOSITE VIDEO SIGNAL
DL3701 2H DELAY LINE
FL3705 L.P.F. & DELAY LINE (300μSEC)
(TO REMOVE THE CLOCK CARRIER FROM 2H CCD DELAY LINE)
DELAYED VIDEO LEVEL ADJ
SEPARATED LUMINANCE SIGNAL
SEPARATED CHROMINANCE SIGNAL
PACK C.B.A. (VEP03891A)
PK3801
TP3701
2.0Vp-p REC
IC3302 (MSM6871RS)
CLAMP
CCD
AMP
SCHMITT
(1H DELAY LINE)
X3301
FL3302 L.P.F.
REG 5V
DL8301 1H DELAY
CHROMA PHASE
CHROMA BALANCE
VR3301 Y-BAL
IC3301 (AN3495K)
Q3301, Q3302 BUFFER
NOR
DO
LNC
EE
P.B.
REC
LIM
-10dB
-7dB
-12dB
-3dB
22dB
4dB
DL
VR3302 Y-LEVEL
-9.5dB
LOG
EDIT
NR
OFF
NOTE: LNC: LINE NOISE CANCELL
HSS
HQ PACK C.B.A. (VEP03635A)
P3301
P3302
IC3001 (M52055FP)
IC3002 (VCR0281)
0.5Vp-p: REC 0.8Vp-p: PLAY
1.0Vp-p REC/PLAY
SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)
IC3506 (M52055FP)
FROM SERVO CONTROL
SERIAL DATA
SERIAL CLOCK
FROM IC3503-12
JUMP
IC8503
DL8501 0.5H DELAY LINE
Q8503 BUFFER
JUMP PULSE
P3502
P3503
TP3051
0.4Vp-p REC/PLAY
IC303 (VEFH05BT)
NON-LINEAR PROCESSOR
S-VHS LUMI LEVEL
S-VHS P.B. LUMI LEVEL
IC302 (M52055FP)
JA
JB
CLAMP
DETAIL L.N.C.
NON-LINEAR EMPHASIS/ DE-EMPHASIS
EMPHASIS
FM DEMODULATOR
WHITE / DARK CLIP
LIM
L.P.F.
N.C. MIX
V.V. AMP
MIXER
SYNC SEPA
DROP-OUT COMPENSATOR
D.O.C. PULSE
DROP OUT DETECTOR
LIMITER
H.P.F.
FM CARRIER & DEVIATION
VHS MODE
S-VHS MODE
WHITE CLIP & DARK CLIP
IC304 (NJM2233BMA)
Q301 BUFFER
FL301 5MHz L.P.F.
FL302 3MHz L.P.F.
QR303
QR304
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03634A)
VR801 S-VHS CHROMA OUTPUT LEVEL
DL801 COMB FILTER (2HDL)
MESECAM KILLER
QR803
REC BELL
FL801 1.6MHz L.P.F.
REC MODE 627KMHz
IC801 (VCR0284)
FL801 4.43MHz B.P.F.
ACC
ACC DETECTOR
PILOT BURST ON/OFF
PILOT PULSE GEN.
COMB AMP
SECAM
PAL
P.B. BUFFER REC BURST 6dB BOOST
MAIN BALANCE MODULATOR
REC COLOUR KILLER
P.B. COLOUR KILLER
BURST GATE
KILLER PHASE COMPARATOR
90° PHASE SHIFTER
BURST GATE PULSE GENERATOR
V-GATE
1/321
AFC PHASE COMPARATOR
FREQUENCY DETECTOR
1/2
1/4 RING COUNTER
0° 90° 180° 270°
3μSEC MMV
4.5μSEC MMV
PHASE ROTATION
DIGITAL PLL
5.06MHz B.P.F.
X801 X'-TAL OSC (4.43MHz)
X TAL VCO
SUB BALANCE MODULATOR
REC APC COMPARATOR
P.B. APC COMPARATOR
5.03MHz VCO
HSS
ROTARY SW
IC851 (BA7025L)
SECAM DETECT
MESECAM
DDR SECAM PACK C.B.A. (VEP03452A)
VR3001
VHS REC-Y

MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

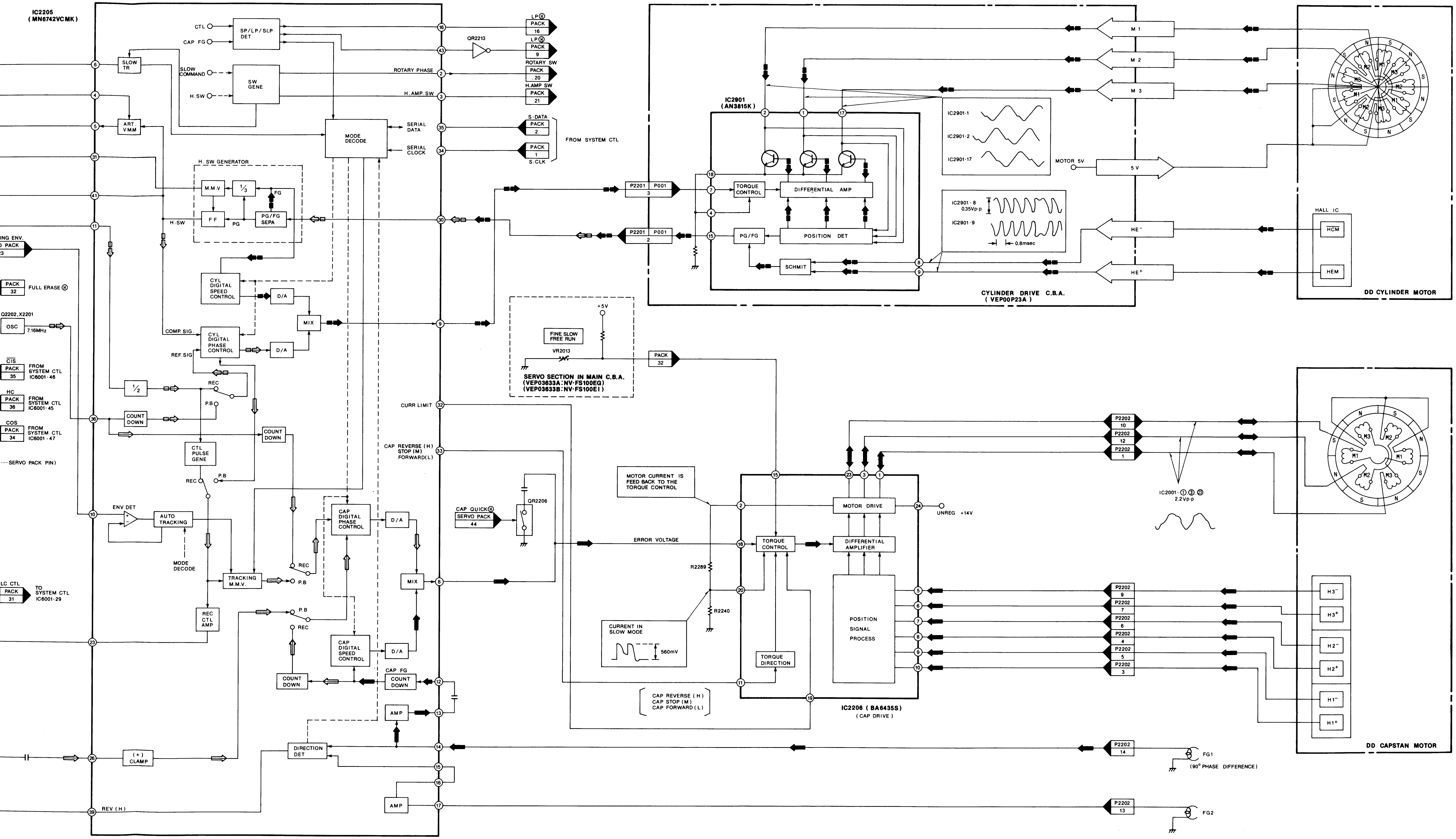

SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)
IC3001 (M52055FP)
EE Ⓗ
VV
EE
P3502 3
IC3506 (M52055FP)
IC8503
FROM SERVO CONTROL
SERIAL DATA
SERIAL CLOCK
FROM IC3503 - 12
JUMP Ⓗ
DOUBLE SPEED Ⓗ
LP Ⓗ
REV Ⓗ
CUE/REV Ⓗ
DL8502 1H DELAY LINE
VR8502
CHROMA DELAY LEVEL
IC8501 (AN3594K)
(COLOUR CORRECTION)
CTL(A)
CTL(B)
MODE SELECT
SW2
SW1
INVERTER
SW6
1/4 JUMP PULSE
1/2
H. AMP SW PULSE (25Hz)
DL8501 0.5H DELAY LINE
VR8503
0.5H DELAY LINE
IC3506 (M52055FP)
Q8503 BUFFER
JUMP PULSE
SW3
CHATERING PROTECTION CIRCUIT
SW4
SW5
1/2 JUMP PULSE
0.5Vp-p: REC
0.8Vp-p: PLAY
IC3002 (VCR0281)
AMP
P3503 3
P3503 1
1.0Vp-p REC/PLAY
HQ PACK C.B.A. (VEP03635A)
P3502 1
IC3501 (TL8705P)
X3501 X'-TAL OSC
13.3MHz
C3630 ~ C3632 L3606, L3607
L.P.F.
CLOCK DRIVE
CCD
SYNC CLAMP
JUMP DELAY LEVEL
VR3501
IC3503 (μPC1517CA)
(1/2 HORIZONTAL LINE CORRECTION)
CLAMP
IC3504 (CXL1009P)
1H DELAY LINE
CLOCK DRIVE
X3502 X'-TAL OSC
21.4MHz
FL3504 L.P.F.
VR3503
JUMP OUTPUT LEVEL ADJ
FL3503 L.P.F.
JUMP PULSE
JUMP VCO
VR3502
REG 5V
FF
1/2 COUNT DOWN
21H VCO
PHASE COMPARATOR
TRAPEZOID GENERATOR
IC3506 (M52055FP)
2.4Vp-p PLAY
1.0Vp-p REC
IC8501 (AN3594K)
HSS
M.M.
HD OUT
(FOR EXTRUCTING THE VERTICAL-SYNC AND EQ)
HORIZONTAL SYNC SIG
EC MODE
627KMHz
IC851 (BA7025L)
REC
P.B.
SECAM DETECT
MESECAM Ⓗ
MESECAM KILLER Ⓗ
DDR SECAM PACK C.B.A. (VEP03452A)
V-GATE
1/321
AFC PHASE COMPARATOR
FREQUENCY DETECTOR
1/2
RING COUNTER
90° 180° 270°
3μSEC MMV
4.5μSEC MMV
HSS
PHASE ROTATION
PHASE ROTATION
DIGITAL PLL
ROTARY SW
JA 8
IC5001 (M52054SP)
C3042, C3043 H.P.F.
C3016 H.P.F.
VR3001
VHS REC-Y
S-VHS
VHS
VHS Ⓗ
MESECAM Ⓗ
Q5006
ON/AUTO
OFF
S-VHS SELECT SW
IC5001 (M52054SP)
INVERTER
INTEGRATION CIRCUIT
3.8MHz PEAKING AMP
VR5004 SP-Q
VR5005 LP-Q
Q5001 C5006, C5010 C5030, C5032 L5004
LUMINANCE P.B. Q CONTROL
CON EQ AMP
FL5002 DELAY LINE
SUPER LIMITTER
VR5001 SUPER LIM.
SUPER LIMITTER
TP5001
Q5002 ~ Q5005, Q5008 Q5012 ~ Q5015 FL5003
IC5002 (AN6308S)
VR5002 COS EQ
P.B. COMPOSITE Ⓗ
FREQUENCY RESPONCE CONTROL
0.2Vp-p PLAY
HQ PACK C.B.A. (VEP03635A)
IC501 (AN3334K)
P3001-P501 7
P3001-P501 9
P3001-P501 10
P3001-P501 1
P3001-P501 2
P3001-P501 5
P3001-P501 3
P3001-P501 6
P3001-P501 4
REC-C VR502
VR501 REC-Y
TRICK(L)
P.B. Ⓛ
PLAY 5V
HEAD SW
25Hz
H. AMP SW
ENVE. SELECT SIG.
MIX
AMP
SW
SW LOGIC
TP508
TP507
1ST & 2ND AMP
HEAD SW
H SW
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
ENVE SELECT
Q501 AMP
HEAD AMP OUTPUT RF SIGNAL 120mVp-p
627K 3.8M 4.8M (Hz)
P502 1
P502 2
P502 3
P502 6
P502 5
P502 4
SP VIDEO HEAD L
SP VIDEO HEAD R
LP VIDEO HEAD R
LP VIDEO HEAD L
620±5μm
R (35μm)
L' (49μm)
R (49μm)
L (35μm)
HEAD AMP C.B.A. (VEP05149A)

3-3. SERVO BLOCK DIAGRAM

CYLINDER SERVO PHASE LOOP   CYLINDER SERVO SPEED LOOP   CAPSTAN SERVO PHASE LOOP   CAPSTAN SERV


IC2204 (MN4052BS)
+5V
S0
S1
S2
S3
CTL
SP Ⓗ FROM IC2205 -43
REV Ⓗ FROM IC2205 -39
SP Ⓗ
REV Ⓗ
L
H
L S0 S2
H S1 S3
LP NOR PACK 30
SP NOR PACK 28
LP REV PACK 29
SP REV PACK 27
(SLOW TR FIX)
LP NOR VR2006
SP NOR VR2011
LP REV VR2018
SP REV VR2019
SLOW TR M.M PACK 10
(PACK····SERVO PACK PIN)
ART. V PACK 25
ART. V/H/N PACK 14
PG SHIFTER PACK 4
+5V VR2001
PG SHIFTER
H.SW PACK 18
VSS PACK 17
TRACKING ENV. SERVO PACK 23
IC5001 (M52054SP)
FROM H.AMP
RF CHROMA
Y/C PACK 14
AMP
DET
AUTO TRACK GAIN
VR5003
+B
IC2202 (MN4013BS)
Q D PR R CLK
PACK 32 FULL ERASE Ⓗ
QR2209
Q2202, X2201
OSC 7.16MHz
TP2031
TP2032
CTL HEAD
P2001 2
P2002 1
PACK 41
PACK 40
QR2208
REC START
HC
COS
(FOR INDEX SEARCH)
IC2201 (AN3726K)
CIS PACK 35 FROM SYSTEM CTL IC6001-46
HC PACK 36 FROM SYSTEM CTL IC6001-45
COS PACK 34 FROM SYSTEM CTL IC6001-47
(PACK····SERVO PACK PIN)
P.B CTL REWRITE
HEAD CURR. CTL
TRAPEZOID
DUTY CHANGE
CTL DUTY CHANGE M.M
M.M
H NOR REC
NOR REC
PB H:ON REWRITE:OFF
QR2207
CIS
FWD (L)
RVS (H)
AMP
R·S FF
SHAPER
SHAPER
H:ON
PB
REC
AGC
LC CTL PACK 31 TO SYSTEM CTL IC6001-29
Q2204 BUFFER
Q2205 AMP
Q2206 BUFFER
IC2301 AMP
IC2302 (MN4066B)
QR2301
Q2301 BUFFER
IC2301 AMP
IC2205 (MN6742VCMK)
CTL
CAP FG
SP/LP/SLP DET
SLOW TR
SLOW COMMAND
H.SW
SW GENE
ART V.M.M
MODE DECODE
SERIAL DATA
SERIAL CLOCK
H. SW GENERATOR
M.M.V
1/3
FG
FF
PG
PG/FG SEPA
H.SW
CYL DIGITAL SPEED CONTROL
D/A
MIX
COMP. SIG.
REF. SIG
CYL DIGITAL PHASE CONTROL
D/A
1/2
REC
P.B
COUNT DOWN
COUNT DOWN
CTL PULSE GENE
REC P.B
ENV DET
AUTO TRACKING
MODE DECODE
TRACKING M.M.V.
REC CTL AMP
REC P.B
P.B REC
CAP DIGITAL PHASE CONTROL
D/A
MIX
CAP DIGITAL SPEED CONTROL
D/A
COUNT DOWN
CAP FG COUNT DOWN
AMP
DIRECTION DET
(+) CLAMP
AMP
REV (H)
LP Ⓗ PACK 16
QR2213
LP Ⓗ PACK 9
ROTARY PHASE
ROTARY SW PACK 20
H.AMP SW
H.AMP SW PACK 21
S-DATA PACK 2
PACK 1 S.CLK
FROM SYSTEM CTL
CURR LIMIT
CAP REVERSE (H) STOP (M) FORWARD (L)
CAP QUICK Ⓗ SERVO PACK 44
QR2206
ERROR VOLTAGE
IC2901 (AN3815K)
P2201 P001 3
P2201 P001 2
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
+5V
FINE SLOW FREE RUN
VR2013
PACK 32
SERVO SECTION IN MAIN C.B.A.
(VEP03633A : NV-FS100EG)
(VEP03633B : NV-FS100EI)
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
R2289
R2240
CURRENT IN SLOW MODE
560mV
MOTOR DRIVE
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
POSITION SIGNAL PROCESS
TORQUE DIRECTION
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
IC2206 (BA6435S) (CAP DRIVE)

LOOP CYLINDER SERVO SPEED LOOP CAPSTAN SERVO PHASE LOOP CAPSTAN SERVO SPEED LOOP

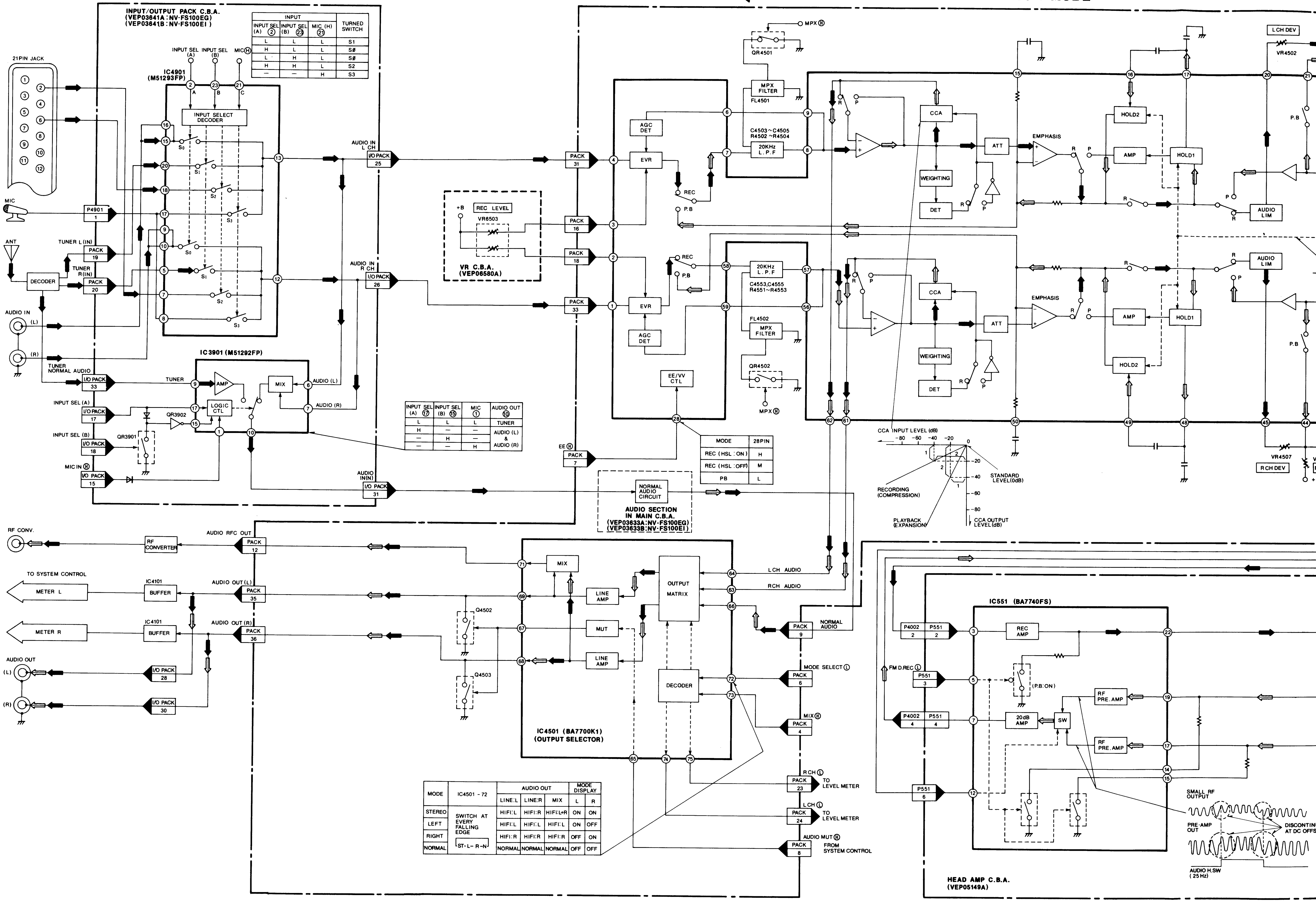

IC2205
(MN6742VCMK)
CTL
CAP FG
SP/LP/SLP DET
SLOW TR
SLOW COMMAND
H.SW
SW GENE
ROTARY PHASE
H.AMP SW
QR2213
LP Ⓗ PACK 16
LP Ⓗ PACK 9
ROTARY SW PACK 20
H.AMP SW PACK 21
ART VMM
MODE DECODE
SERIAL DATA
SERIAL CLOCK
S-DATA PACK 2
PACK 1 S.CLK
FROM SYSTEM CTL
H.SW GENERATOR
M.M.V
1/3
FG
FF
PG
PG/FG SEPA
CYL DIGITAL SPEED CONTROL
D/A
MIX
COMP. SIG.
REF. SIG
CYL DIGITAL PHASE CONTROL
ING ENV.
PACK 23
PACK 32
FULL ERASE Ⓗ
Q2202, X2201
OSC
7.16MHz
CIS PACK 35 FROM SYSTEM CTL IC6001-46
HC PACK 36 FROM SYSTEM CTL IC6001-45
COS PACK 34 FROM SYSTEM CTL IC6001-47
......SERVO PACK PIN)
1/2
REC
P.B
COUNT DOWN
CTL PULSE GENE
ENV DET
AUTO TRACKING
MODE DECODE
TRACKING M.M.V.
REC CTL AMP
LC CTL PACK 31 TO SYSTEM CTL IC6001-29
(+) CLAMP
REV (H)
CURR LIMIT
CAP REVERSE (H) STOP (M) FORWARD (L)
CAP DIGITAL PHASE CONTROL
CAP DIGITAL SPEED CONTROL
CAP FG
AMP
DIRECTION DET
CAP QUICK Ⓗ SERVO PACK 44
QR2206
P2201 P001 3
P2201 P001 2
FINE SLOW FREE RUN
VR2013
+5V
PACK 32
SERVO SECTION IN MAIN C.B.A. (VEP03633A: NV-FS100EG) (VEP03633B: NV-FS100EI)
IC2901 (AN3815K)
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
IC2901-1
IC2901-2
IC2901-17
IC2901-8 0.35Vp-p
IC2901-9
0.8msec
MOTOR 5V
5 V
M 1
M 2
M 3
HE⁻
HE⁺
CYLINDER DRIVE C.B.A. (VEP00P23A)
HALL IC
HCM
HEM
DD CYLINDER MOTOR
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
ERROR VOLTAGE
R2289
R2240
CURRENT IN SLOW MODE
560mV
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL
TORQUE DIRECTION
POSITION SIGNAL PROCESS
UNREG +14V
IC2206 (BA6435S) (CAP DRIVE)
P2202 10
P2202 12
P2202 1
P2202 9
P2202 7
P2202 6
P2202 4
P2202 5
P2202 3
P2202 14
P2202 13
IC2001-①③㉓ 2.2Vp-p
H3⁻
H3⁺
H2⁻
H2⁺
H1⁻
H1⁺
M1
M2
M3
N
S
DD CAPSTAN MOTOR
FG1
(90° PHASE DIFFERENCE)
FG2

Next Page:
Hi-Fi AUDIO Section

3-4. Hi-Fi AUDIO BLOCK DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE


INPUT/OUTPUT PACK C.B.A.
(VEP03641A : NV-FS100EG)
(VEP03641B : NV-FS100EI)
21PIN JACK
MIC
ANT
TUNER L (IN)
TUNER R (IN)
DECODER
AUDIO IN (L) (R)
TUNER NORMAL AUDIO
INPUT SEL (A)
INPUT SEL (B)
QR3901
QR3902
MIC IN Ⓗ
P4901
IC4901 (M51293FP)
INPUT SELECT DECODER
INPUT SEL (A)
INPUT SEL (B)
MIC Ⓗ
AUDIO IN L CH
AUDIO IN R CH
I/O PACK
IC3901 (M51292FP)
TUNER
AMP
MIX
LOGIC CTL
AUDIO (L)
AUDIO (R)
AUDIO IN(N)
VR C.B.A. (VEP06580A)
REC LEVEL
VR6503
PACK
AGC DET
EVR
REC
P.B
EE/VV CTL
EE Ⓗ
QR4501
MPX Ⓗ
MPX FILTER
FL4501
C4503~C4505 R4502~R4504
20KHz L.P.F
C4553,C4555 R4551~R4553
FL4502
QR4502
CCA
WEIGHTING
DET
ATT
EMPHASIS
HOLD1
HOLD2
AMP
AUDIO LIM
L CH DEV
R CH DEV
VR4502
VR4507
MODE
28PIN
REC (HSL : ON)
H
REC (HSL : OFF)
M
PB
L
CCA INPUT LEVEL (dB)
-80 -60 -40 -20 0
-20 -40 -60 -80
STANDARD LEVEL(0dB)
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL(dB)
NORMAL AUDIO CIRCUIT
AUDIO SECTION IN MAIN C.B.A.
(VEP03633A : NV-FS100EG)
(VEP03633B : NV-FS100EI)
RF CONV.
RF CONVERTER
AUDIO RFC OUT
TO SYSTEM CONTROL
METER L
METER R
IC4101
BUFFER
AUDIO OUT (L)
AUDIO OUT (R)
AUDIO OUT
Q4502
Q4503
MIX
LINE AMP
MUT
OUTPUT MATRIX
DECODER
IC4501 (BA7700K1)
(OUTPUT SELECTOR)
L CH AUDIO
R CH AUDIO
NORMAL AUDIO
MODE SELECT Ⓛ
MIX Ⓗ
R CH Ⓛ TO LEVEL METER
L CH Ⓛ TO LEVEL METER
AUDIO MUT Ⓗ FROM SYSTEM CONTROL
IC551 (BA7740FS)
P4002
P551
FM D.REC Ⓛ
REC AMP
(P.B:ON)
20dB AMP
SW
RF PRE.AMP
SMALL RF OUTPUT
PRE-AMP OUT
DISCONTIN AT DC OFFS
AUDIO H.SW (25Hz)
HEAD AMP C.B.A. (VEP05149A)

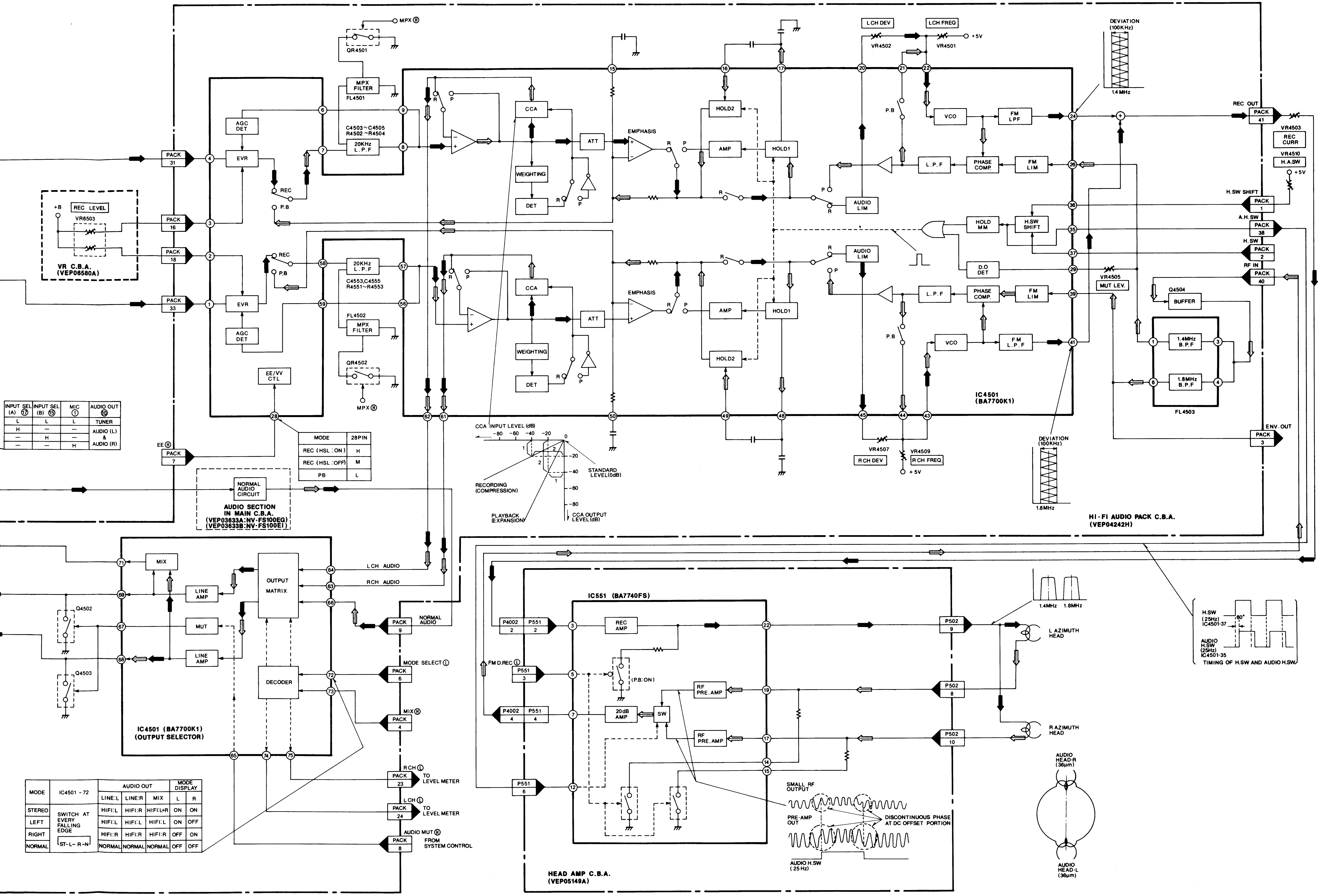
INPUT			TURNED SWITCH
INPUT SEL (A) ②	INPUT SEL (B) ㉓	MIC (H) ㉑	
L	L	L	S1
H	L	L	S0
L	H	L	S0
H	H	L	S2
—	—	H	S3

INPUT SEL (A) ⑰	INPUT SEL (B) ⑮	MIC ①	AUDIO OUT ⑩
L	L	L	TUNER
H	—	—	AUDIO (L) & AUDIO (R)
—	H	—	
—	—	H	

MODE	28PIN
REC (HSL : ON)	H
REC (HSL : OFF)	M
PB	L

MODE	IC4501 - 72	AUDIO OUT			MODE DISPLAY	
		LINE:L	LINE:R	MIX	L	R
STEREO	SWITCH AT EVERY FALLING EDGE ST- L- R -N	HIFI:L	HIFI:R	HIFI:L+R	ON	ON
LEFT		HIFI:L	HIFI:L	HIFI:L	ON	OFF
RIGHT		HIFI:R	HIFI:R	HIFI:R	OFF	ON
NORMAL		NORMAL	NORMAL	NORMAL	OFF	OFF

■ MAIN SIGNAL PATH IN REC MODE ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE



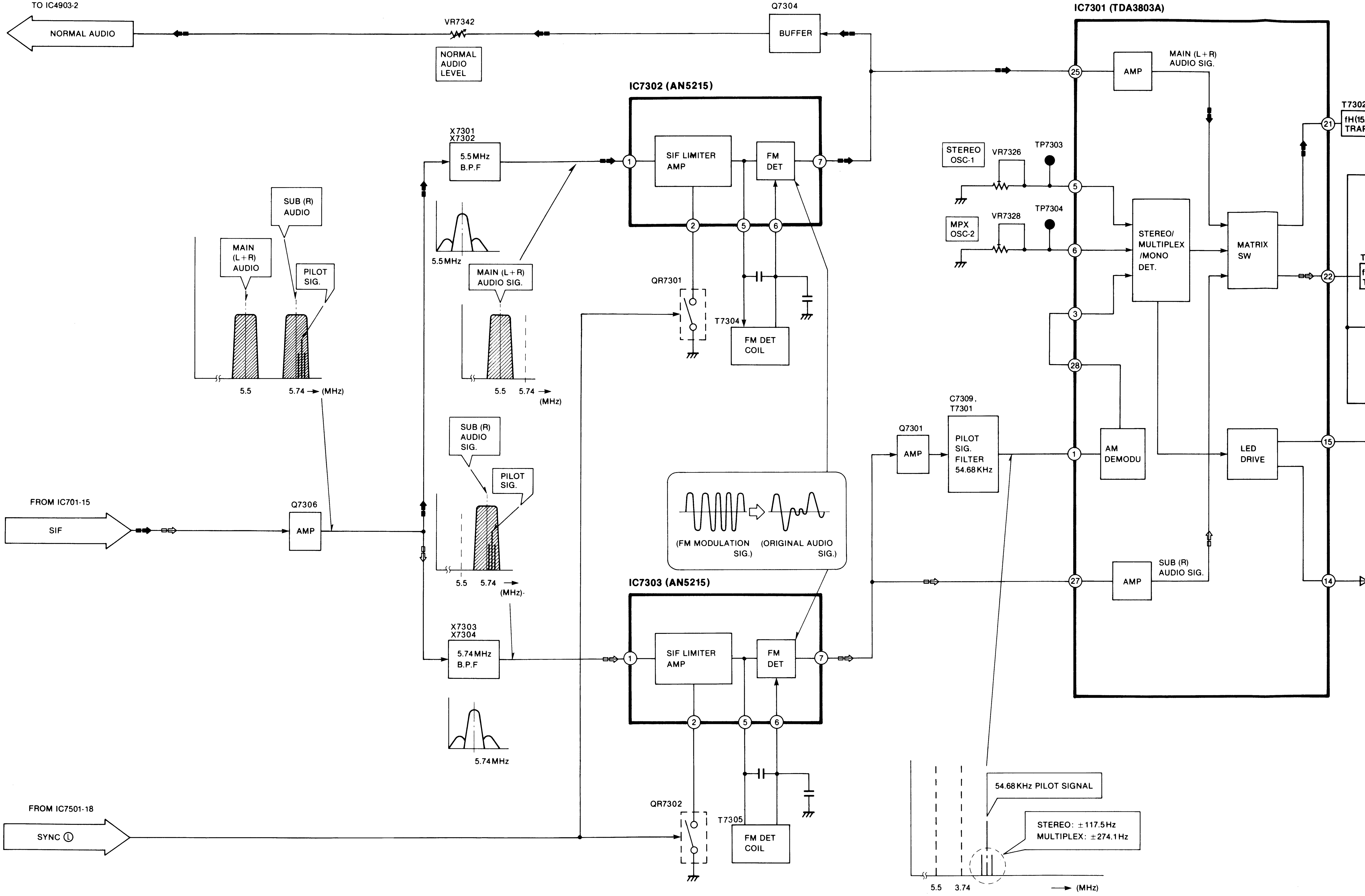
MPX Ⓗ
QR4501
MPX FILTER
FL4501
C4503~C4505
R4502~R4504
20KHz L.P.F
AGC DET
EVR
REC
P.B
PACK 31
PACK 16
PACK 18
PACK 33
+B
REC LEVEL
VR6503
VR C.B.A.
(VEP06580A)
20KHz L.P.F
C4553,C4555
R4551~R4553
FL4502
MPX FILTER
QR4502
MPX Ⓗ
EE/VV CTL
EE Ⓗ
PACK 7
CCA
WEIGHTING
DET
ATT
EMPHASIS
R
P
HOLD2
AMP
HOLD1
AUDIO LIM
LCH DEV
LCH FREQ
VR4502
VR4501
+5V
VCO
FM LPF
PHASE COMP.
FM LIM
L.P.F
HOLD MM
H.SW SHIFT
D.O DET
DEVIATION (100KHz)
1.4MHz
REC OUT
PACK 41
VR4503
REC CURR
VR4510
H.A.SW
H.SW SHIFT
PACK 1
A.H.SW
PACK 38
H.SW
PACK 2
RF IN
PACK 40
VR4505
MUT LEV.
Q4504
BUFFER
1.4MHz B.P.F
1.8MHz B.P.F
FL4503
ENV.OUT
PACK 3
IC4501
(BA7700K1)
VR4507
R CH DEV
VR4509
R CH FREQ.
DEVIATION (100KHz)
1.8MHz
HI·FI AUDIO PACK C.B.A.
(VEP04242H)
CCA INPUT LEVEL (dB)
-80 -60 -40 -20 0
-20
-40
-60
-80
STANDARD LEVEL(0dB)
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL (dB)
NORMAL AUDIO CIRCUIT
AUDIO SECTION IN MAIN C.B.A.
(VEP03633A:NV-FS100EG)
(VEP03633B:NV-FS100EI)
MIX
LINE AMP
MUT
LINE AMP
OUTPUT MATRIX
DECODER
Q4502
Q4503
IC4501 (BA7700K1)
(OUTPUT SELECTOR)
LCH AUDIO
RCH AUDIO
PACK 9
NORMAL AUDIO
MODE SELECT Ⓛ
PACK 6
MIX Ⓗ
PACK 4
RCH Ⓛ
PACK 23
TO LEVEL METER
LCH Ⓛ
PACK 24
TO LEVEL METER
AUDIO MUT Ⓗ
PACK 8
FROM SYSTEM CONTROL
IC551 (BA7740FS)
P4002 2
P551 2
FM D.REC Ⓛ
P551 3
P4002 4
P551 4
P551 6
REC AMP
(P.B:ON)
20dB AMP
SW
RF PRE.AMP
RF PRE.AMP
P502 9
P502 8
P502 10
1.4MHz 1.8MHz
L AZIMUTH HEAD
R AZIMUTH HEAD
SMALL RF OUTPUT
PRE-AMP OUT
DISCONTINUOUS PHASE AT DC OFFSET PORTION
AUDIO H.SW (25 Hz)
HEAD AMP C.B.A.
(VEP05149A)
H.SW (25Hz) IC4501-37
60°
AUDIO H.SW (25Hz) IC4501-35
TIMING OF H.SW AND AUDIO H.SW
AUDIO HEAD-R (36μm)
AUDIO HEAD-L (36μm)

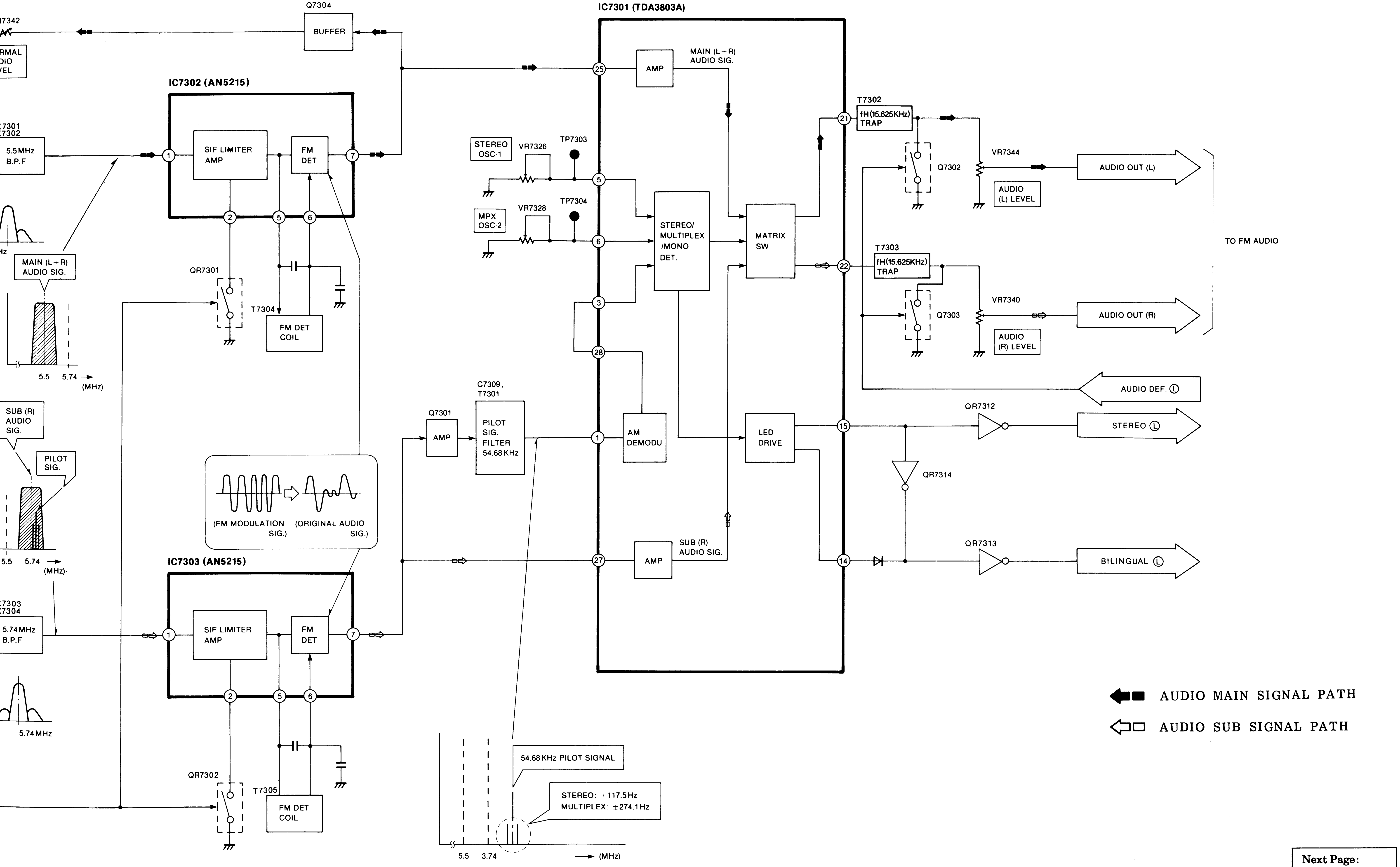
INPUT SEL (A) ⑰	INPUT SEL (B) ⑮	MIC ①	AUDIO OUT ⑩
L	L	L	TUNER
H	—	—	AUDIO (L) & AUDIO (R)
—	H	—	
—	—	H	

MODE	28PIN
REC (HSL : ON)	H
REC (HSL : OFF)	M
PB	L

MODE	IC4501 - 72	AUDIO OUT			MODE DISPLAY	
		LINE:L	LINE:R	MIX	L	R
STEREO	SWITCH AT EVERY FALLING EDGE ST-L- R -N	HIFI:L	HIFI:R	HIFI:L+R	ON	ON
LEFT		HIFI:L	HIFI:L	HIFI:L	ON	OFF
RIGHT		HIFI:R	HIFI:R	HIFI:R	OFF	ON
NORMAL		NORMAL	NORMAL	NORMAL	OFF	OFF

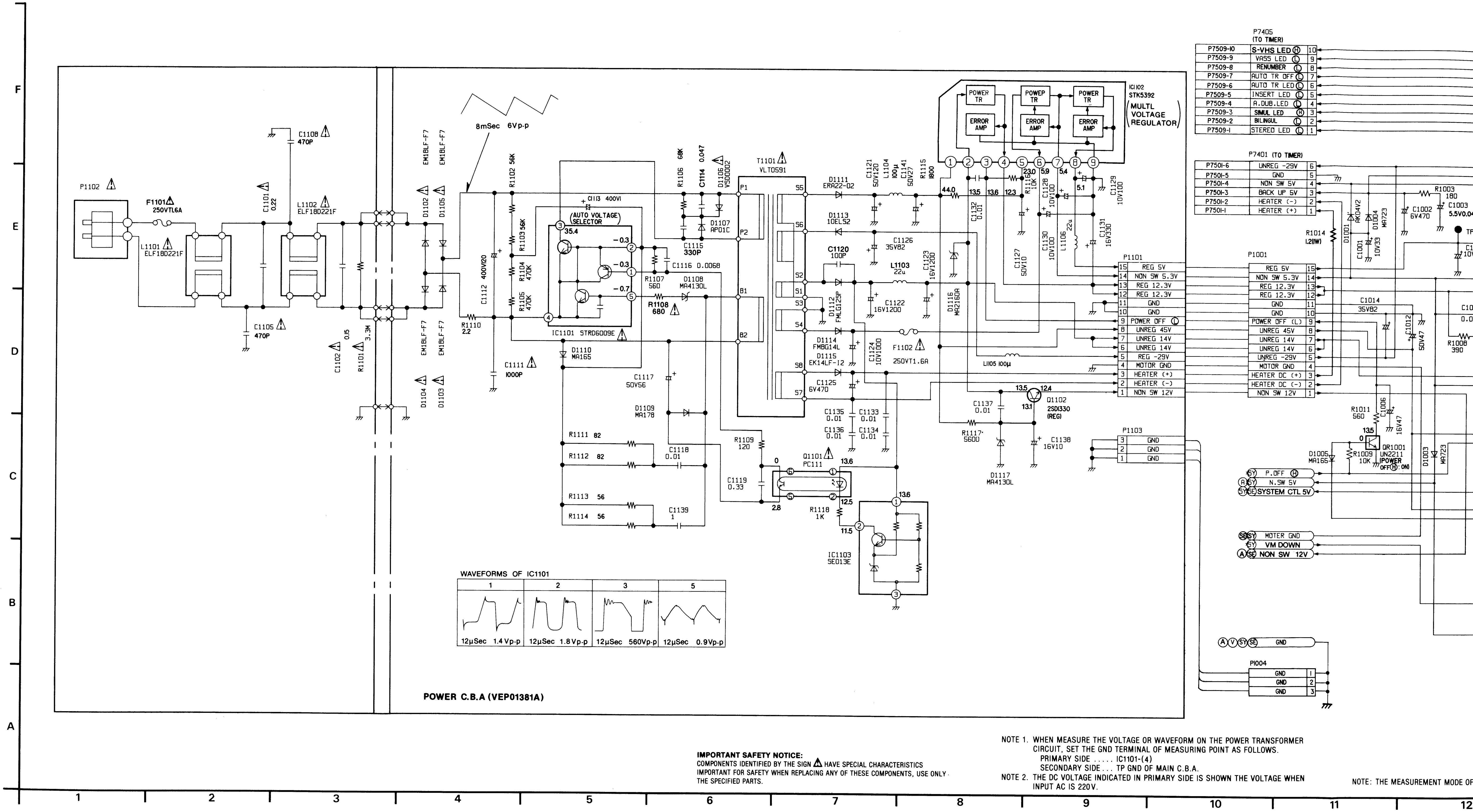
3-5. DECODER BLOCK DIAGRAM


TO IC4903-2
NORMAL AUDIO
VR7342
NORMAL AUDIO LEVEL
Q7304
BUFFER
IC7301 (TDA3803A)
MAIN (L+R) AUDIO SIG.
AMP
IC7302 (AN5215)
X7301
X7302
5.5MHz B.P.F
SIF LIMITER AMP
FM DET
5.5MHz
MAIN (L+R) AUDIO SIG.
SUB (R) AUDIO
MAIN (L+R) AUDIO
PILOT SIG.
5.5
5.74 → (MHz)
5.5 5.74 → (MHz)
QR7301
T7304
FM DET COIL
STEREO OSC-1
VR7326
TP7303
MPX OSC-2
VR7328
TP7304
STEREO/ MULTIPLEX /MONO DET.
MATRIX SW
T7302
fH(15
TRAP
C7309, T7301
Q7301
AMP
PILOT SIG. FILTER 54.68KHz
AM DEMODU
LED DRIVE
SUB (R) AUDIO SIG.
PILOT SIG.
(FM MODULATION SIG.)
(ORIGINAL AUDIO SIG.)
FROM IC701-15
SIF
Q7306
AMP
5.5 5.74 → (MHz)
IC7303 (AN5215)
X7303
X7304
5.74MHz B.P.F
SIF LIMITER AMP
FM DET
5.74MHz
QR7302
T7305
FM DET COIL
FROM IC7501-18
SYNC Ⓛ
54.68KHz PILOT SIGNAL
STEREO: ±117.5Hz
MULTIPLEX: ±274.1Hz
5.5 3.74 → (MHz)


Q7304
BUFFER
7342
RMAL
DIO
VEL
IC7302 (AN5215)
7301
7302
5.5MHz
B.P.F
SIF LIMITER
AMP
FM
DET
MAIN (L+R)
AUDIO SIG.
5.5
5.74
(MHz)
QR7301
T7304
FM DET
COIL
SUB (R)
AUDIO
SIG.
PILOT
SIG.
(FM MODULATION SIG.)
(ORIGINAL AUDIO SIG.)
IC7303 (AN5215)
7303
7304
5.74MHz
B.P.F
5.74MHz
QR7302
T7305
IC7301 (TDA3803A)
AMP
MAIN (L+R)
AUDIO SIG.
STEREO
OSC-1
VR7326
TP7303
MPX
OSC-2
VR7328
TP7304
STEREO/
MULTIPLEX
/MONO
DET.
MATRIX
SW
Q7301
AMP
C7309,
T7301
PILOT
SIG.
FILTER
54.68KHz
AM
DEMODU
LED
DRIVE
SUB (R)
AUDIO SIG.
T7302
fH(15.625KHz)
TRAP
T7303
fH(15.625KHz)
TRAP
Q7302
Q7303
VR7344
VR7340
AUDIO
(L) LEVEL
AUDIO
(R) LEVEL
AUDIO OUT (L)
AUDIO OUT (R)
TO FM AUDIO
AUDIO DEF. Ⓛ
QR7312
STEREO Ⓛ
QR7314
QR7313
BILINGUAL Ⓛ
54.68KHz PILOT SIGNAL
STEREO: ±117.5Hz
MULTIPLEX: ±274.1Hz
5.5
3.74
(MHz)
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH

Next Page:
POWER Section

3-6. POWER SCHEMATIC DIAGRAM

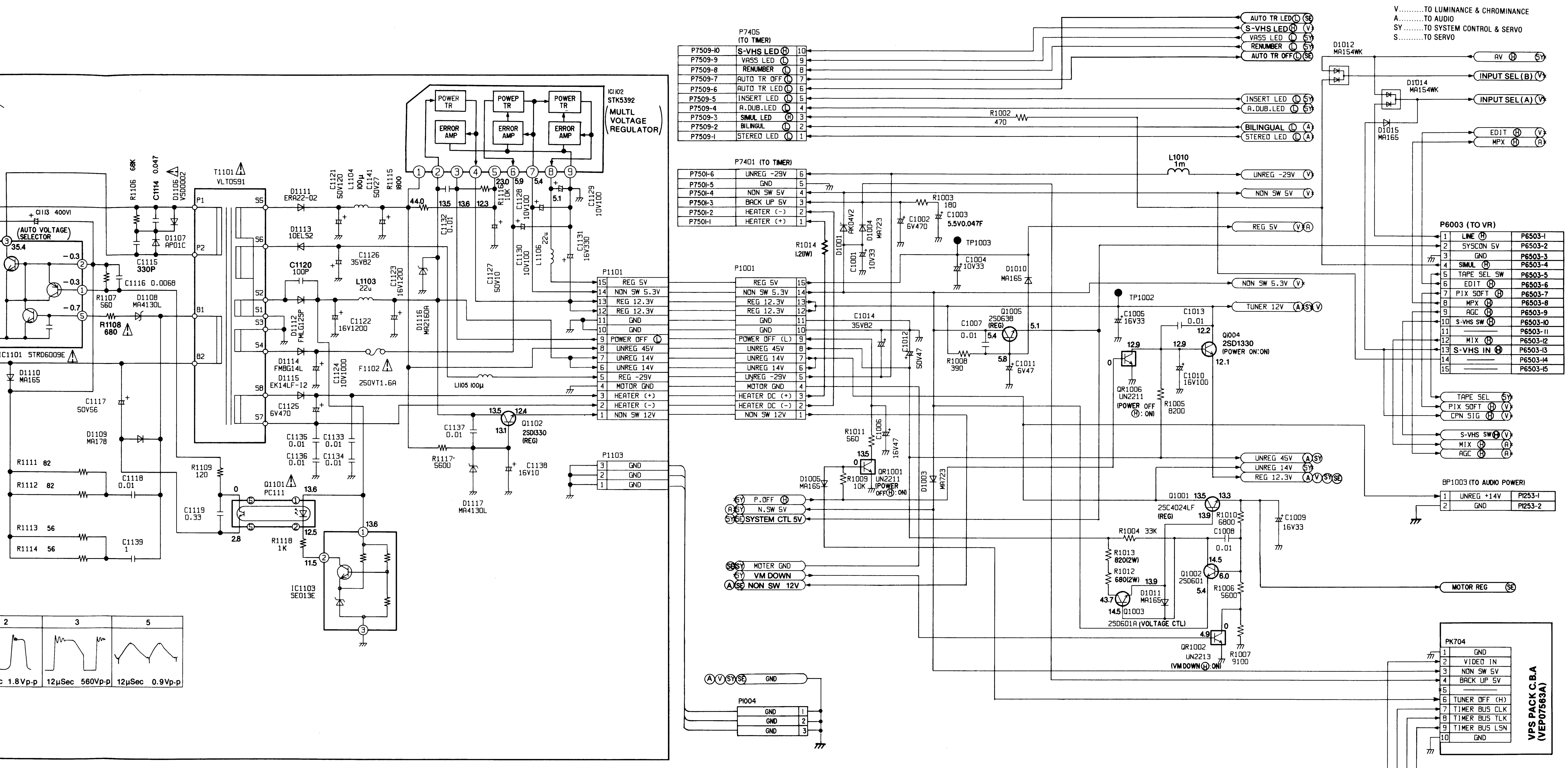

F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
P1102 ⚠
F1101⚠
250VTL6A
L1101 ⚠
ELF18D221F
C1108 ⚠
470P
C1101 ⚠
0.22
L1102 ⚠
ELF18D221F
C1105 ⚠
470P
C1102 ⚠
0.15
R1101 ⚠
3.3M
EM1BLF-F7
D1102 ⚠
D1105 ⚠
D1104 ⚠
D1103 ⚠
8mSec 6Vp-p
R1110
2.2
C1112 400V120
R1102 56K
R1103 56K
R1104 470K
R1105 470K
C1111 ⚠
1000P
C1113 400V1
(AUTO VOLTAGE SELECTOR)
35.4
-0.3
-0.3
-0.7
IC1101 STR06009E ⚠
D1110
MA165
R1106 68K
C1114 0.047
D1106 ⚠
V500002
D1107 ⚠
AP01C
C1115
330P
C1116 0.0068
R1107
560
D1108
MA4130L
R1108
680 ⚠
C1117
50V56
D1109
MA178
R1111 82
R1112 82
R1113 56
R1114 56
C1118
0.01
C1139
1
R1109
120
C1119
0.33
T1101 ⚠
VLT0591
P1
P2
B1
B2
S5
S6
S2
S1
S3
S4
S8
S7
D1111
ERA22-02
D1113
10ELS2
C1120
100P
D1112
FMLG12SP
D1114
FMBG14L
D1115
EK14LF-12
C1125
6V470
C1121
50V120
L1104
100μ
C1141
50V27
R1115
1800
C1126
35V82
L1103
22u
C1122
16V1200
C1123
16V1200
C1124
10V1000
F1102 ⚠
250VT1.6A
L1105 100μ
D1116
MA2160A
C1135 0.01
C1133 0.01
C1136 0.01
C1134 0.01
Q1101 ⚠
PC111
0
13.6
2.8
12.5
R1118
1K
11.5
IC1103
SE013E
IC1102
STK5392
(MULTI VOLTAGE REGULATOR)
POWER TR
POWEP TR
ERROR AMP
44.0
13.5
13.6
12.3
23.0
5.9
5.4
5.1
R1116 10K
C1128 10V100
C1132 0.01
C1127 50V10
C1130 10V100
L1106 22u
C1131 16V330
C1129 10V100
C1137 0.01
Q1102
2SD1330
(REG)
13.5
12.4
13.1
R1117
5600
D1117
MA4130L
C1138
16V10
P1101
15 REG 5V
14 NON SW 5.3V
13 REG 12.3V
12 REG 12.3V
11 GND
10 GND
9 POWER OFF Ⓛ
8 UNREG 45V
7 UNREG 14V
6 UNREG 14V
5 REG -29V
4 MOTOR GND
3 HEATER (+)
2 HEATER (-)
1 NON SW 12V
P1103
3 GND
2 GND
1 GND
P7405
(TO TIMER)
P7509-10 S-VHS LED Ⓗ 10
P7509-9 VASS LED Ⓛ 9
P7509-8 RENUMBER Ⓛ 8
P7509-7 AUTO TR OFF Ⓛ 7
P7509-6 AUTO TR LED Ⓛ 6
P7509-5 INSERT LED Ⓛ 5
P7509-4 A.DUB.LED Ⓛ 4
P7509-3 SIMUL LED Ⓗ 3
P7509-2 BILINGUL Ⓛ 2
P7509-1 STEREO LED Ⓛ 1
P7401 (TO TIMER)
P7501-6 UNREG -29V 6
P7501-5 GND 5
P7501-4 NON SW 5V 4
P7501-3 BACK UP 5V 3
P7501-2 HEATER (-) 2
P7501-1 HEATER (+) 1
P1001
REG 5V 15
NON SW 5.3V 14
REG 12.3V 13
REG 12.3V 12
GND 11
GND 10
POWER OFF (L) 9
UNREG 45V 8
UNREG 14V 7
UNREG 14V 6
UNREG -29V 5
MOTOR GND 4
HEATER DC (+) 3
HEATER DC (-) 2
NON SW 12V 1
R1014
1.2(1W)
D1001
AK04V2
D1004
MA723
C1001
10V33
R1003
180
C1002
6V470
C1003
5.5V0.04
C1014
35V82
C1012
50V47
R1008
390
R1011
560
C1006
16V47
13.5
0
QR1001
UN2211
(POWER OFF Ⓗ: ON)
D1005
MA165
R1009
10K
D1003
MA723
SY P.OFF Ⓗ
A SY N.SW 5V
SY SE SYSTEM CTL 5V
SE SY MOTER GND
SY VM DOWN
A SE NON SW 12V
A V SY SE GND
P1004
GND 1
GND 2
GND 3
WAVEFORMS OF IC1101
1
2
3
5
12μSec 1.4Vp-p
12μSec 1.8Vp-p
12μSec 560Vp-p
12μSec 0.9Vp-p
POWER C.B.A (VEP01381A)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... IC1101-(4)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

NOTE: THE MEASUREMENT MODE OF


V..........TO LUMINANCE & CHROMINANCE
A..........TO AUDIO
SY........TO SYSTEM CONTROL & SERVO
S..........TO SERVO
P7405 (TO TIMER)
P7509-10 S-VHS LED Ⓗ 10
P7509-9 VASS LED Ⓛ 9
P7509-8 RENUMBER Ⓛ 8
P7509-7 AUTO TR OFF Ⓛ 7
P7509-6 AUTO TR LED Ⓛ 6
P7509-5 INSERT LED Ⓛ 5
P7509-4 A.DUB.LED Ⓛ 4
P7509-3 SIMUL LED Ⓗ 3
P7509-2 BILINGUL Ⓛ 2
P7509-1 STEREO LED Ⓛ 1
P7401 (TO TIMER)
P7501-6 UNREG -29V 6
P7501-5 GND 5
P7501-4 NON SW 5V 4
P7501-3 BACK UP 5V 3
P7501-2 HEATER (-) 2
P7501-1 HEATER (+) 1
IC1102 STK5392
MULTI VOLTAGE REGULATOR
POWER TR
POWEP TR
ERROR AMP
T1101 ⚠ VLT0591
IC1101 STR D6009E ⚠
(AUTO VOLTAGE) SELECTOR
C1113 400V1
R1106 68K
C1114 0.047
D1106 ⚠ VSD0002
D1107 AP01C
C1115 330P
C1116 0.0068
R1107 560
D1108 MA4130L
R1108 680 ⚠
D1110 MA165
C1117 50V56
D1109 MA178
R1111 82
R1112 82
C1118 0.01
R1113 56
R1114 56
C1139 1
R1109 120
C1119 0.33
Q1101 ⚠ PC111
R1118 1K
IC1103 SE013E
D1111 ERA22-02
D1113 10ELS2
C1120 100P
D1112 FMLG12SP
D1114 FMBG14L
D1115 EK14LF-12
C1125 6V470
C1121 50V120
L1104 100μ
C1141 50V27
R1115 1800
C1126 35V82
L1103 22μ
C1122 16V1200
C1123 16V1200
C1124 10V1000
F1102 ⚠ 250VT1.6A
L1105 100μ
C1135 0.01
C1133 0.01
C1136 0.01
C1134 0.01
C1132 0.01
D1116 MA2160A
C1127 50V10
R1116 10K
C1128 10V100
C1130 10V100
L1106 22μ
C1131 16V330
C1129 10V100
C1137 0.01
R1117 5600
D1117 MA4130L
Q1102 2SD1330 (REG)
C1138 16V10
P1101
15 REG 5V
14 NON SW 5.3V
13 REG 12.3V
12 REG 12.3V
11 GND
10 GND
9 POWER OFF Ⓛ
8 UNREG 45V
7 UNREG 14V
6 UNREG 14V
5 REG -29V
4 MOTOR GND
3 HEATER (+)
2 HEATER (-)
1 NON SW 12V
P1103
3 GND
2 GND
1 GND
P1001
15 REG 5V
14 NON SW 5.3V
13 REG 12.3V
12 REG 12.3V
11 GND
10 GND
9 POWER OFF (L)
8 UNREG 45V
7 UNREG 14V
6 UNREG 14V
5 UNREG -29V
4 MOTOR GND
3 HEATER DC (+)
2 HEATER DC (-)
1 NON SW 12V
P1004
GND 1
GND 2
GND 3
Ⓢ Ⓨ P.OFF Ⓗ
Ⓐ Ⓢ Ⓨ N.SW 5V
Ⓢ Ⓨ Ⓢ Ⓔ SYSTEM CTL 5V
Ⓢ Ⓔ Ⓢ Ⓨ MOTER GND
Ⓢ Ⓨ VM DOWN
Ⓐ Ⓢ Ⓔ NON SW 12V
Ⓐ Ⓥ Ⓢ Ⓨ Ⓢ Ⓔ GND
R1002 470
L1010 1m
R1003 180
C1002 6V470
C1003 5.5V0.047F
D1001 AK04V2
D1004 MA723
R1014 1.2(W)
C1001 10V33
TP1003
C1004 10V33
D1010 MA165
C1014 35V82
C1012 50V47
C1007 0.01
Q1005 2SD638 (REG)
R1008 390
C1011 6V47
TP1002
C1005 16V33
C1013 0.01
Q1004 2SD1330 (POWER ON:ON)
C1010 16V100
QR1006 UN2211 (POWER OFF Ⓗ: ON)
R1005 8200
R1011 560
C1006 16V47
D1005 MA165
R1009 10K
QR1001 UN2211 (POWER OFF Ⓗ: ON)
D1003 MA723
Q1001 2SC4024LF (REG)
R1010 6800
C1009 16V33
R1004 33K
C1008 0.01
R1013 820(2W)
R1012 680(2W)
Q1002 2SD601
R1006 5600
D1011 MA165
Q1003 2SD601A (VOLTAGE CTL)
QR1002 UN2213 (VM DOWN Ⓗ: ON)
R1007 9100
AUTO TR LED Ⓛ Ⓢ Ⓔ
S-VHS LED Ⓗ Ⓥ
VASS LED Ⓛ Ⓢ Ⓨ
RENUMBER Ⓛ Ⓢ Ⓨ
AUTO TR OFF Ⓛ Ⓢ Ⓔ
INSERT LED Ⓛ Ⓢ Ⓨ
A.DUB.LED Ⓛ Ⓢ Ⓨ
BILINGUAL Ⓛ Ⓐ
STEREO LED Ⓛ Ⓐ
UNREG -29V Ⓥ
NON SW 5V Ⓥ
REG 5V Ⓥ Ⓐ
NON SW 5.3V Ⓥ
TUNER 12V Ⓐ Ⓢ Ⓨ Ⓥ
UNREG 45V Ⓐ Ⓢ Ⓨ
UNREG 14V Ⓢ Ⓨ
REG 12.3V Ⓐ Ⓥ Ⓢ Ⓨ Ⓢ Ⓔ
D1012 MA154WK
D1014 MA154WK
D1015 MA165
AV Ⓗ Ⓢ Ⓨ
INPUT SEL (B) Ⓥ
INPUT SEL (A) Ⓥ
EDIT Ⓗ Ⓥ
MPX Ⓗ Ⓐ
P6003 (TO VR)
1 LINE Ⓗ P6503-1
2 SYSCON 5V P6503-2
3 GND P6503-3
4 SIMUL Ⓗ P6503-4
5 TAPE SEL SW P6503-5
6 EDIT Ⓗ P6503-6
7 PIX SOFT Ⓗ P6503-7
8 MPX Ⓗ P6503-8
9 AGC Ⓗ P6503-9
10 S-VHS SW Ⓗ P6503-10
11 P6503-11
12 MIX Ⓗ P6503-12
13 S-VHS IN Ⓗ P6503-13
14 P6503-14
15 P6503-15
TAPE SEL Ⓢ Ⓨ
PIX SOFT Ⓗ Ⓥ
CPN SIG Ⓗ Ⓥ
S-VHS SW Ⓗ Ⓥ
MIX Ⓗ Ⓐ
AGC Ⓗ Ⓐ
BP1003 (TO AUDIO POWER)
1 UNREG +14V P1253-1
2 GND P1253-2
MOTOR REG Ⓢ Ⓔ
PK704
1 GND
2 VIDEO IN
3 NON SW 5V
4 BACK UP 5V
5
6 TUNER OFF (H)
7 TIMER BUS CLK
8 TIMER BUS TLK
9 TIMER BUS LSN
10 GND
VPS PACK C.B.A (VEP07563A)
TIMER BUS LSN Ⓐ
TIMER BUS TLK Ⓐ
TIMER BUS CLK Ⓐ
VIDEO IN Ⓥ
2
3
5
1.8Vp-p
12μSec 560Vp-p
12μSec 0.9Vp-p

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... IC1101-(4)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

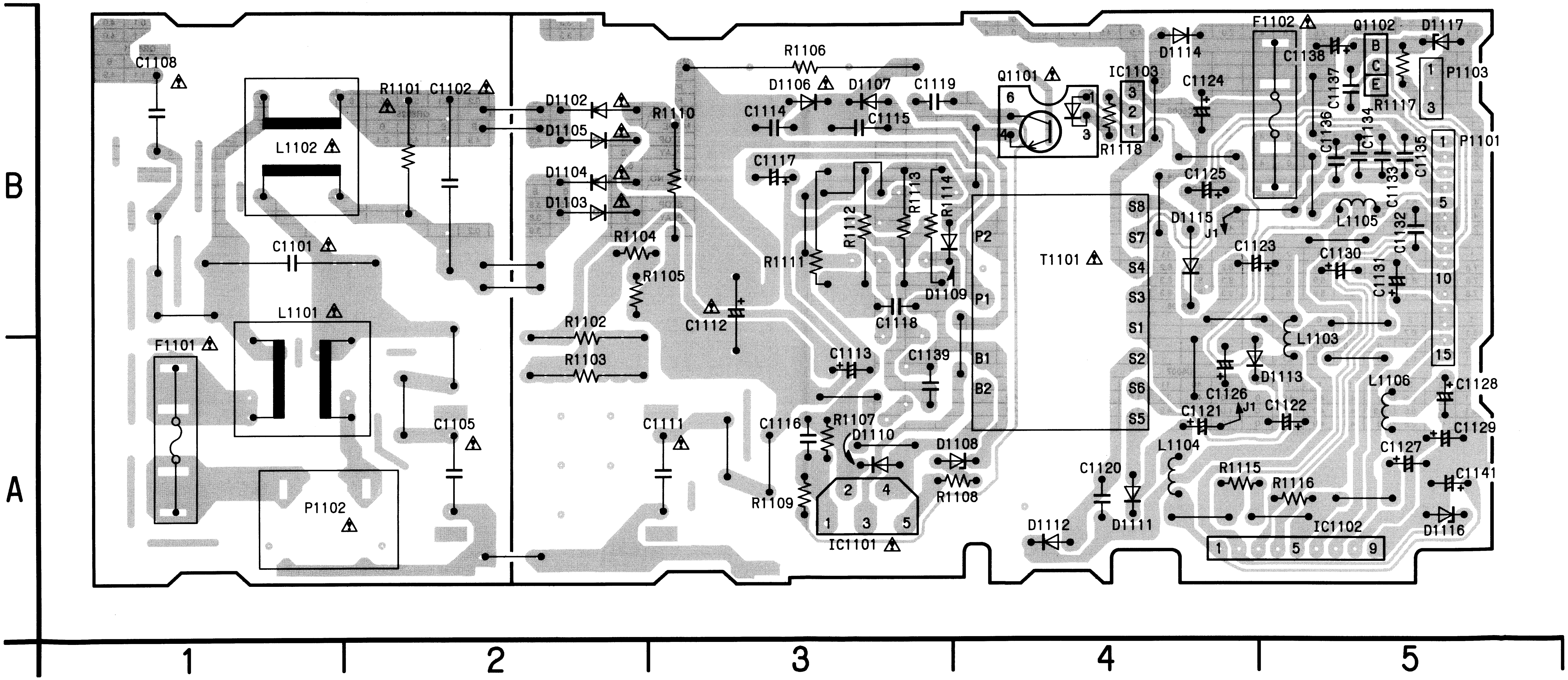
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5 6 7 8 9 10 11 12 13 14 15 16

3-7. POWER C.B.A. (VEP01381A)

POWER C.B.A.	
Transistor	
Q1101	B-4
Q1102	B-5
Integrated Circuit	
IC1101	A-3
IC1102	A-5
IC1103	B-4
Connector	
P1101	B-5
P1102	A-1
P1103	B-5

ADDRESS INFORMATION


B
A
1
2
3
4
5
C1108
R1101
C1102
L1102
C1101
L1101
F1101
P1102
C1105
D1102
D1105
D1104
D1103
R1110
R1104
R1105
R1102
R1103
C1112
C1111
R1106
D1106
D1107
C1119
C1114
C1115
C1117
R1111
R1112
R1113
R1114
D1109
C1118
C1113
C1139
C1116
R1107
D1110
R1109
D1108
R1108
IC1101
Q1101
IC1103
R1118
T1101
P2
P1
B1
B2
S8
S7
S4
S3
S1
S2
S6
S5
D1114
C1124
F1102
C1138
Q1102
B
C
E
D1117
P1103
R1117
C1137
C1136
C1134
C1133
C1135
P1101
1
5
10
15
C1125
D1115
J1
L1105
C1132
C1123
C1130
C1131
L1103
C1126
D1113
C1121
C1122
L1106
C1128
C1129
C1127
L1104
C1120
D1111
D1112
R1115
R1116
IC1102
C1141
D1116
1
5
9

SYSTEM CONTROL ICs DC VOLTAGE CHART (S-VHS: SP MODE)

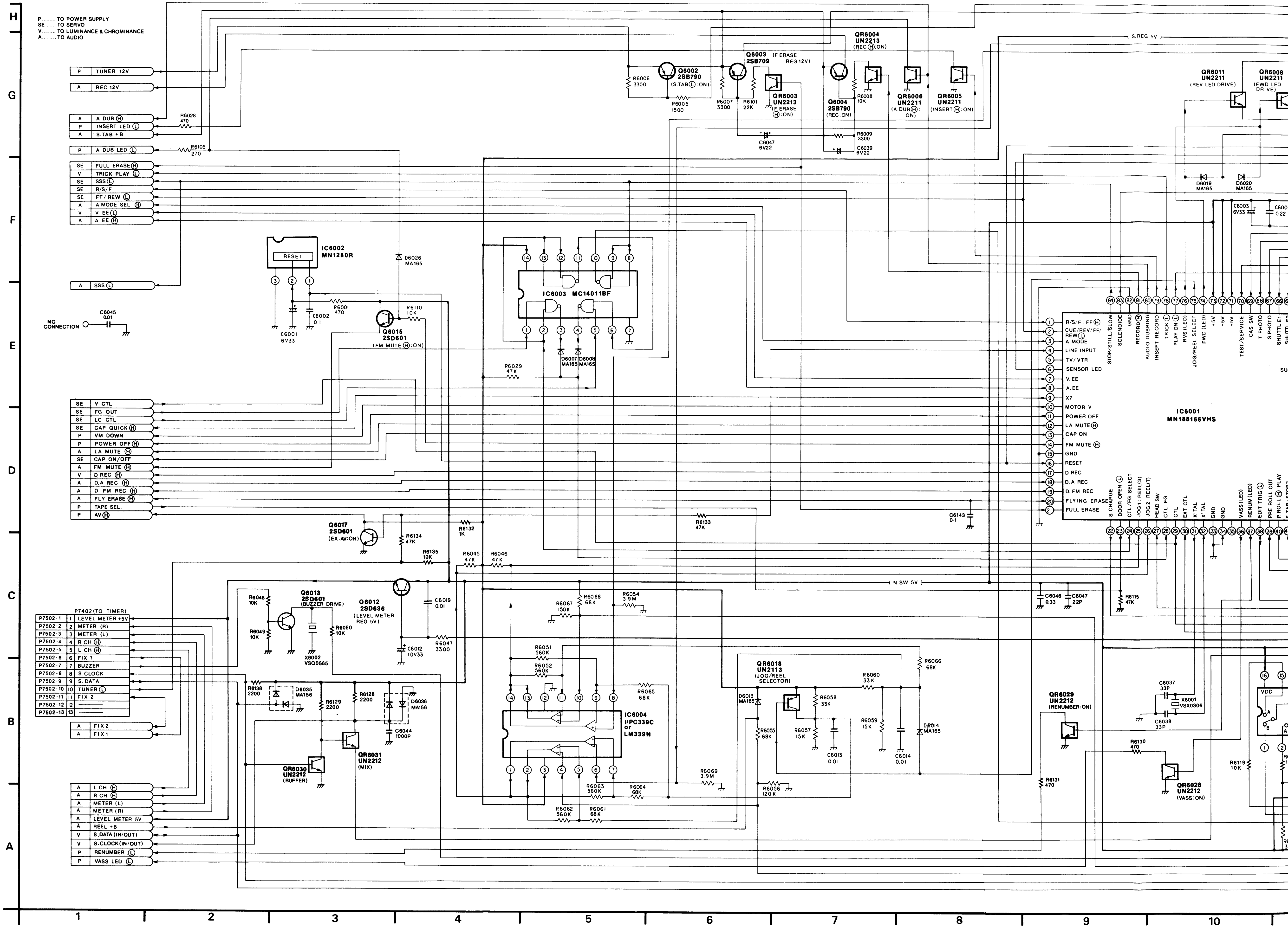
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.1	4.9	0	4.9	0	4.4	0.1	4.9	0	4.9	0	0	0	0	0	4.6	0.1	0	0	0
PLAY	0	4.9	0	4.9	0	4.4	4.9	0	0	0	0	0	4.9	0	0	4.6	0.1	0	0	0
FF	0	0	0	4.9	0	4.4	0.1	4.9	4.9	4.9	0	0	4.9	0	0	5.0	0.1	0	0	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.8	4.8	0	5.1	0.1	5.1	—	—	0	0	4.9	0	0	4.9	0	1.0
PLAY	0	0	0	0	4.8	4.8	3.0	2.6	3.0	3.4	—	—	0	0	4.9	0	0	4.9	0	0
FF	0	0	0	0	2.6	2.5	0	2.1	4.4	5.1	—	—	0	0	4.9	0	0	4.9	0	1.0
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.0	3.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.1	0	4.6	4.5	0.2	4.9	4.9	4.9	0	3.9	0
PLAY	1.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.2	0	4.6	4.4	0.2	4.9	4.9	4.9	0	3.9	0
FF	1.0	3.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.1	0	4.6	4.5	0.2	4.9	4.9	4.9	0	3.9	0
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	3.9	0	0	0	3.3	4.6	4.6	4.7	2.0	4.0	4.9	4.9	4.9	0	0	0	4.9	4.9	0	0
PLAY	3.8	0	0	0	3.3	4.6	4.6	4.7	2.0	4.0	4.9	4.9	4.9	0	0	0	0.1	4.9	0	0
FF	3.9	0	0	0	3.3	4.6	4.6	4.7	2.0	4.0	4.9	4.9	4.9	0	0	0	4.9	4.9	0	0
REF. NO.	IC6001										IC6002									
MODE	81	82	83	84							1	2	3							
STOP	0	0	4.9	4.9							4.6	4.9	0							
PLAY	0	0	4.9	4.9							4.6	4.9	0							
FF	0	0	4.9	4.9							5.0	5.0	0							
REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	5.1	0	5.1	0	5.1	5.1	0	4.9	4.9	0	5.1	0	0	5.1						
PLAY	2.7	0	5.1	2.4	3.6	5.1	0	4.9	4.9	0	5.1	0	0	5.1						
FF	2.4	0	5.1	2.2	2.8	5.1	0	4.9	4.9	0	5.1	0	0	5.1						
REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	4.8	4.8	5.1	0.2	2.0	3.5	5.0	3.5	4.5	2.6	1.4	0	0	0						
PLAY	4.8	4.8	5.1	3.0	2.0	3.5	4.7	3.5	4.9	2.9	2.0	0	4.8	4.8						
FF	2.6	2.6	5.1	1.5	1.7	3.5	4.7	3.5	4.8	1.4	1.7	0	2.5	2.6						
REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	7.8	8.1	8.1	1.2	5.9	5.9	0	5.9	8.2	8.2	8.2	0	7.0	4.9	4.9	0				
PLAY	7.8	8.1	8.1	1.2	5.9	5.9	0	5.9	8.3	8.3	8.3	0	7.0	4.9	4.9	0				
FF	7.8	8.1	8.1	1.2	5.9	5.9	0	5.9	8.3	8.3	8.3	0	7.0	4.9	4.9	0				
REF. NO.	IC6006																			
MODE	1	2	3	4	5	6	7	8												
STOP	5.1	0	0.7	0	0	2.9	0.1	5.1												
PLAY	3.0	1.1	0.7	0	1.0	2.9	0.1	5.1												
FF	5.1	0	0.7	0	0	2.9	0.1	5.1												
REF. NO.	IC6007																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0.1	4.9	0.5	0	4.9	4.9	4.9	0	1.0	4.9	3.9	1.0	1.0	0	4.9	4.9				
PLAY	0.1	4.9	0.5	4.9	4.9	4.9	4.9	0	1.0	4.9	4.9	1.0	0	3.8	0	4.9				
FF	0.1	4.9	0.5	0	4.9	4.9	4.9	0	1.2	4.9	3.6	1.0	1.0	3.9	4.9	4.9				

Back Page:
POWER Section

SYSTEM CONTROL TRs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	Q6002			Q6003			Q6004			Q6006			Q6007			Q6008		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	12.2	11.5	12.2	0.2	12.2	12.2	0	12.2	13.5	13.5	5.3	0	13.5	0	0.6	13.5	0.4
PLAY	12.2	12.2	11.5	12.2	0.3	12.2	12.2	0	12.2	13.4	13.4	5.2	0	13.4	0	0.6	13.4	0.4
FF	12.2	12.2	11.5	12.2	0.2	12.2	12.2	0	12.2	13.5	13.5	5.3	0	13.5	0	0.6	13.5	0.6
REF. NO.	Q6011			Q6012			Q6013			Q6014			Q6015			Q6017		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	8.2	13.5	9.4	4.9	5.0	5.7	0	0	0.7	0	0	0.6	−0.1	4.9	0	0	0.1	0.7
PLAY	8.3	13.4	9.4	4.9	5.0	5.7	0	0	0.7	0	1.2	0.4	−0.1	4.9	0	0	0.1	0.7
FF	8.3	13.5	9.4	4.9	5.0	5.7	0	0	0.7	0	0	0.4	−0.1	4.9	0	0	0.1	0.7
REF. NO.	QR6003			QR6004			QR6005			QR6006			QR6007			QR6008		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	12.2	0	0	12.2	0	0	3.4	0	0	3.4	0	0	5.1	0.6	0	3.6	0
PLAY	0	12.2	0	0	12.2	0	0	3.4	0	0	3.4	0	0	5.0	0.6	0	3.5	0
FF	0	12.2	0	0	12.2	0	0	3.4	0	0	3.4	0	0	5.1	0.6	0	3.6	0
REF. NO.	QR6009			QR6010			QR6011			QR6013			QR6014			QR6015		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	3.3	0	3.3	0.6	0	3.6	0	5.1	0	4.9	5.1	0.5	4.4	0	0.1	4.0
PLAY	0	0	3.3	0	3.3	0.6	0	3.6	0	5.1	0	4.9	5.1	0.5	4.4	0	0.1	4.0
FF	0	0	3.3	0	3.3	0.6	0	3.6	0	5.1	0	4.9	5.1	0.5	4.4	0	0.1	4.0
REF. NO.	QR6016			QR6017			QR6018			QR6019			QR6020			QR6021		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0.4	0.1	0	4.5	0.3	5.1	5.0	0	0	1.0	3.9	0	0	4.9	5.1	1.1	4.9
PLAY	0	0.4	0.2	0	4.5	0.2	5.1	5.0	0	0	1.0	3.8	0	1.0	0.1	5.1	1.0	4.9
FF	0	0.4	0.1	0	4.5	0.2	5.1	5.0	0	0	1.2	3.9	0	0	4.9	5.1	5.0	0
REF. NO.	QR6022			QR6024			QR6025			QR6027			QR6028			QR6029		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	1.1	0	4.6	4.9	0	4.9	0	4.9	0.1	0	2.5	0	0	3.4	0	0	3.4	0
PLAY	1.0	0	4.6	4.9	0	4.9	0	4.9	0.1	0	2.6	0	0	3.4	0	0	3.5	0
FF	5.0	0	5.0	4.9	0	4.9	0	4.9	0.1	0	2.5	0	0	3.4	0	0	3.5	0
REF. NO.	QR6030			QR6031														
MODE	E	C	B	E	C	B												
STOP	0	0.2	4.5	3.9	4.7	0.2												
PLAY	0	0.2	4.6	3.8	4.7	0.2												
FF	0	0.3	4.5	3.9	4.7	0.2												

3-8. SYSTEM CONTROL SCHEMATIC DIAGRAM


P.......TO POWER SUPPLY
SE .....TO SERVO
V.........TO LUMINANCE & CHROMINANCE
A.........TO AUDIO
P TUNER 12V
A REC 12V
A A DUB Ⓗ
P INSERT LED Ⓛ
A S.TAB +B
P A DUB LED Ⓛ
SE FULL ERASE Ⓗ
V TRICK PLAY Ⓛ
SE SSS Ⓛ
SE R/S/F
SE FF/REW Ⓛ
A A MODE SEL Ⓗ
V V EE Ⓛ
A A EE Ⓗ
A SSS Ⓛ
NO CONNECTION
C6045 0.01
IC6002 MN1280R
RESET
C6001 6V33
C6002 0.1
R6001 470
Q6015 2SD601 (FM MUTE Ⓗ: ON)
R6110 10K
D6026 MA165
R6028 470
R6105 270
R6006 3300
Q6002 2SB790 (S.TAB Ⓛ: ON)
R6005 1500
Q6003 (F.ERASE: REG 12V) 2SB709
R6007 3300
R6101 22K
QR6003 UN2213 (F.ERASE Ⓗ: ON)
C6047 6V22
Q6004 2SB790 (REC: ON)
R6008 10K
R6009 3300
C6039 6V22
QR6004 UN2213 (REC Ⓗ: ON)
QR6006 UN2211 (A.DUB Ⓗ: ON)
QR6005 UN2211 (INSERT Ⓗ: ON)
S.REG 5V
QR6011 UN2211 (REV LED DRIVE)
QR6008 UN2211 (FWD LED DRIVE)
D6019 MA165
D6020 MA165
C6003 6V33
IC6003 MC14011BF
D6007 MA165
D6008 MA165
R6029 47K
SE V CTL
SE FG OUT
SE LC CTL
SE CAP QUICK Ⓗ
P VM DOWN
P POWER OFF Ⓗ
A LA MUTE Ⓗ
SE CAP ON/OFF
A FM MUTE Ⓗ
V D REC Ⓗ
A D.A REC Ⓗ
A D FM REC Ⓗ
A FLY ERASE Ⓗ
P TAPE SEL.
P AV Ⓗ
IC6001 MN188166VHS
R/S/F FF Ⓗ
CUE/REV/FF/REW Ⓛ
A MODE
LINE INPUT
TV/VTR
SENSOR LED
V EE
A EE
X7
MOTOR V
POWER OFF
LA MUTE Ⓗ
CAP ON
FM MUTE Ⓗ
GND
RESET
D REC
D.A REC
D FM REC
FLYING ERASE
FULL ERASE
STOP/STILL/SLOW
SOLENOIDE
GND
RECORD Ⓗ
AUDIO DUBBING
INSERT RECORD
TRICK Ⓛ
PLAY ON Ⓛ
RVS (LED)
JOG/REEL SELECT
FWD (LED)
+5V
+5V
TEST/SERVICE
CAS SW
T PHOTO
S PHOTO
S CHARGE
DOOR OPEN Ⓛ
CTL/FG SELECT
JOG1 REEL(S)
JOG2 REEL(T)
HEAD SW
CTL FG
CTL
EXT CTL
X TAL
X TAL
GND
GND
VASS (LED)
RENUM (LED)
EDIT TRIG Ⓛ
PRE ROLL OUT
C6143 0.1
R6133 47K
Q6017 2SD601 (EX-AV: ON)
R6134 47K
R6132 1K
R6135 10K
R6045 47K
R6046 47K
N SW 5V
C6046 0.33
C6047 22P
R6115 47K
P7402 (TO TIMER)
P7502-1 1 LEVEL METER +5V
P7502-2 2 METER (R)
P7502-3 3 METER (L)
P7502-4 4 R CH Ⓗ
P7502-5 5 L CH Ⓗ
P7502-6 6 FIX 1
P7502-7 7 BUZZER
P7502-8 8 S.CLOCK
P7502-9 9 S.DATA
P7502-10 10 TUNER Ⓛ
P7502-11 11 FIX 2
P7502-12 12
P7502-13 13
A FIX 2
A FIX 1
R6048 10K
R6049 10K
Q6013 2SD601 (BUZZER DRIVE)
X6002 VSQ0565
R6050 10K
Q6012 2SD636 (LEVEL METER REG 5V)
C6019 0.01
C6012 10V33
R6047 3300
R6138 2200
D6035 MA156
R6129 2200
R6128 2200
D6036 MA156
C6044 1000P
QR6030 UN2212 (BUFFER)
QR6031 UN2212 (MIX)
R6067 150K
R6068 68K
R6054 3.9M
R6051 560K
R6052 560K
R6065 68K
IC6004 μPC339C or LM339N
R6063 560K
R6064 68K
R6062 560K
R6061 68K
R6069 3.9M
QR6018 UN2113 (JOG/REEL SELECTOR)
D6013 MA165
R6055 68K
R6056 120K
R6057 15K
R6058 33K
C6013 0.01
R6060 33K
R6059 15K
C6014 0.01
D6014 MA165
R6066 68K
QR6029 UN2212 (RENUMBER: ON)
R6131 470
C6037 33P
X6001 VSX0306
C6038 33P
R6130 470
QR6028 UN2212 (VASS: ON)
R6119 10K
VDD
A L CH Ⓗ
A R CH Ⓗ
A METER (L)
A METER (R)
A LEVEL METER 5V
A REEL +B
V S.DATA (IN/OUT)
V S.CLOCK (IN/OUT)
P RENUMBER Ⓛ
P VASS LED Ⓛ
H
G
F
E
D
C
B
A
1
2
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4
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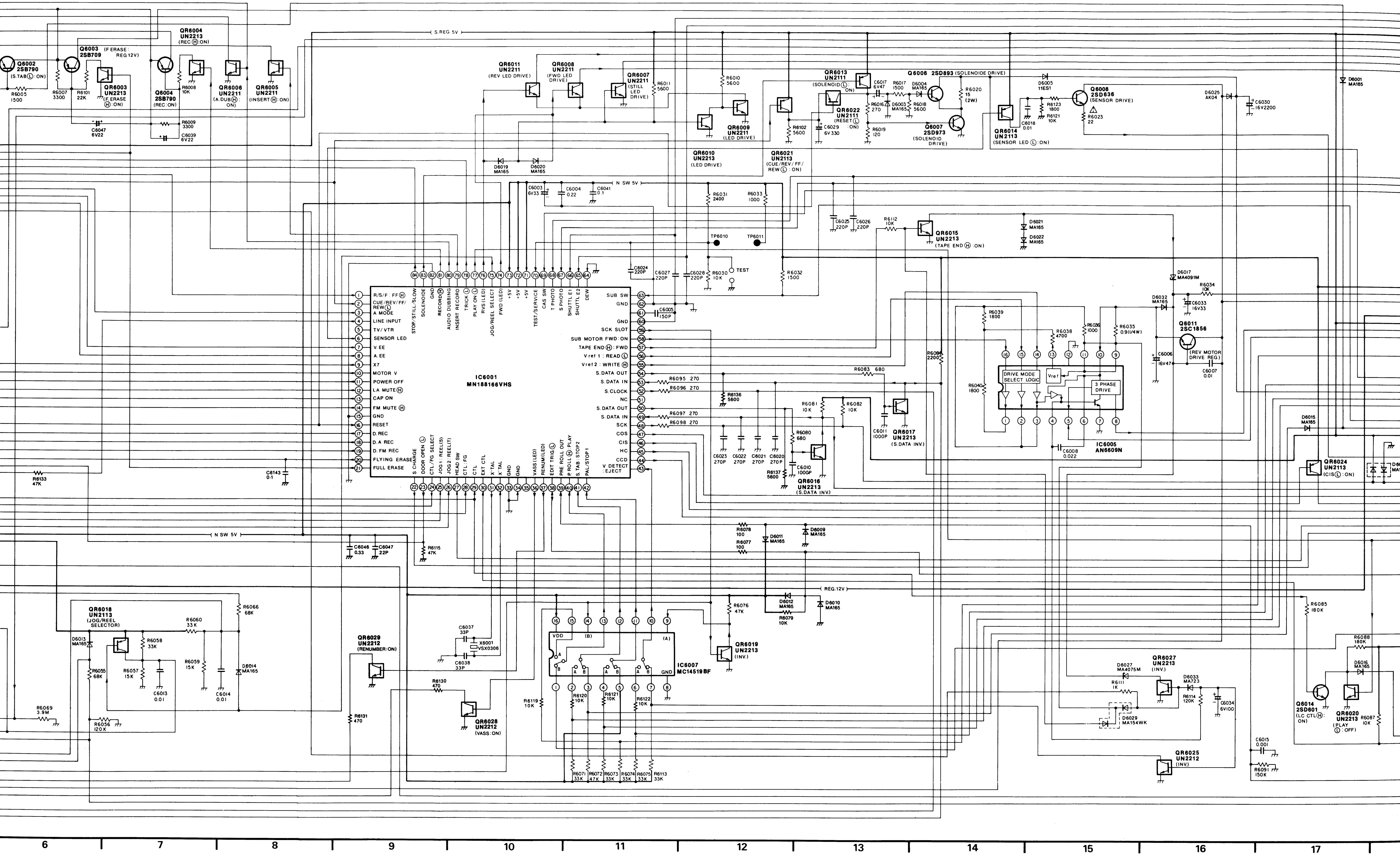
8
9
10


Q6002 2SB790 (S.TAB Ⓛ:ON)
R6005 1500
R6007 3300
Q6003 2SB709 (F.ERASE: REG 12V)
R6101 22K
QR6003 UN2213 (F.ERASE Ⓗ:ON)
C6047 6V22
Q6004 2SB790 (REC:ON)
R6009 3300
C6039 6V22
QR6004 UN2213 (REC Ⓗ:ON)
R6008 10K
QR6006 UN2211 (A.DUB Ⓗ: ON)
QR6005 UN2211 (INSERT Ⓗ:ON)
S.REG 5V
QR6011 UN2211 (REV LED DRIVE)
QR6008 UN2211 (FWD LED DRIVE)
QR6007 UN2211 (STILL LED DRIVE)
R6011 5600
D6019 MA165
D6020 MA165
R6010 5600
QR6009 UN2211 (LED DRIVE)
QR6010 UN2213 (LED DRIVE)
R6102 5600
QR6021 UN2113 (CUE/REV/FF/ REW Ⓛ:ON)
QR6013 UN2111 (SOLENOID Ⓛ: ON)
QR6022 UN2111 (RESET Ⓛ :ON)
C6029 6V 330
C6017 6V47
R6016 270
D6003 MA165
R6017 1500
D6004 MA165
R6018 5600
R6019 120
Q6006 2SD893 (SOLENOIDE DRIVE)
R6020 15 (2W)
Q6007 2SD973 (SOLENOID DRIVE)
D6005 11ES1
QR6014 UN2113 (SENSOR LED Ⓛ:ON)
C6018 0.01
R6123 1800
R6121 10K
Q6008 2SD636 (SENSOR DRIVE)
R6023 22
D6025 AK04
C6030 16V2200
D6001 MA165
N SW 5V
C6003 6V33
C6004 0.22
C6041 0.1
R6031 2400
R6033 1000
C6025 220P
C6026 220P
R6112 10K
QR6015 UN2213 (TAPE END Ⓗ:ON)
D6021 MA165
D6022 MA165
TP6010
TP6011
TEST
C6024 220P
C6027 220P
C6028 220P
R6030 10K
R6032 1500
D6017 MA4091M
IC6001 MN188166VHS
R/S/F FF Ⓗ
CUE/REV/FF/ REW Ⓛ
A MODE
LINE INPUT
TV/VTR
SENSOR LED
V.EE
A.EE
X7
MOTOR V
POWER OFF
LA MUTE Ⓗ
CAP ON
FM MUTE Ⓗ
GND
RESET
D.REC
D.A REC
D.FM REC
FLYING ERASE
FULL ERASE
STOP/STILL/SLOW
SOLENOIDE
GND
RECORD Ⓗ
AUDIO DUBBING
INSERT RECORD
TRICK Ⓛ
PLAY ON Ⓛ
RVS (LED)
JOG/REEL SELECT
FWD (LED)
+5V
+5V
+5V
TEST/SERVICE
CAS SW
T PHOTO
S PHOTO
SHUTTL E1
SHUTTL E2
DEW
SUB SW
GND
GND
SCK SLOT
SUB MOTOR FWD:ON
TAPE END Ⓗ: FWD
Vref 1 : READ Ⓛ
Vref 2 : WRITE Ⓗ
S.DATA OUT
S.DATA IN
S.CLOCK
NC
S.DATA OUT
S.DATA IN
SCK
COS
CIS
HC
CCD
V DETECT :EJECT
S.CHARGE
DOOR OPEN Ⓛ
CTL/FG SELECT
JOG 1 : REEL (S)
JOG 2 : REEL (T)
HEAD SW
CTL · FG
CTL
EXT CTL
X'TAL
X'TAL
GND
GND
VASS (LED)
RENUM (LED)
EDIT TRIG Ⓛ
PRE ROLL OUT
P ROLL Ⓗ PLAY
S.TAB : STOP 2
PAL/STOP 1
C6005 150P
R6095 270
R6096 270
R6097 270
R6098 270
R6136 5600
R6083 680
C6011 1000P
QR6017 UN2213 (S.DATA INV.)
R6081 10K
R6082 10K
R6080 680
C6010 1000P
R6137 5600
QR6016 UN2213 (S.DATA INV.)
C6023 270P
C6022 270P
C6021 270P
C6020 270P
R6086 2200
R6039 1800
R6038 4700
R6036 1000
R6035 0.91 (1/4W)
R6040 1800
DRIVE MODE SELECT LOGIC
Vref
3 PHASE DRIVE
C6008 0.022
IC6005 AN6609N
D6032 MA165
R6034 10K
C6033 16V33
Q6011 2SC1856 (REV MOTOR DRIVE REG)
C6006 16V47
C6007 0.01
D6015 MA165
QR6024 UN2113 (CIS Ⓛ: ON)
R6133 47K
C6143 0.1
N SW 5V
C6046 0.33
C6047 22P
R6115 47K
R6078 100
R6077 100
D6011 MA165
D6009 MA165
REG 12V
D6012 MA165
R6079 10K
D6010 MA165
R6076 47K
QR6019 UN2213 (INV.)
IC6007 MC14519BF
VDD
(A)
(B)
GND
R6119 10K
R6120 10K
R6121 10K
R6122 10K
R6071 33K
R6072 47K
R6073 33K
R6074 33K
R6075 33K
R6113 33K
C6037 33P
X6001 VSX0306
C6038 33P
R6130 470
QR6028 UN2212 (VASS:ON)
QR6029 UN2212 (RENUMBER:ON)
R6131 470
QR6018 UN2113 (JOG/REEL SELECTOR)
R6066 68K
R6060 33K
D6013 MA165
R6058 33K
R6057 15K
C6013 0.01
R6059 15K
C6014 0.01
D6014 MA165
R6055 68K
R6056 120K
R6069 3.9M
D6027 MA4075M
QR6027 UN2213 (INV.)
R6111 1K
D6033 MA723
R6114 120K
C6034 6V100
D6029 MA154WK
QR6025 UN2212 (INV.)
R6085 180K
R6088 180K
D6016 MA165
Q6014 2SD601 (LC CTL Ⓗ: ON)
QR6020 UN2213 (PLAY Ⓛ:OFF)
R6087 10K
C6015 0.001
R6091 150K
6
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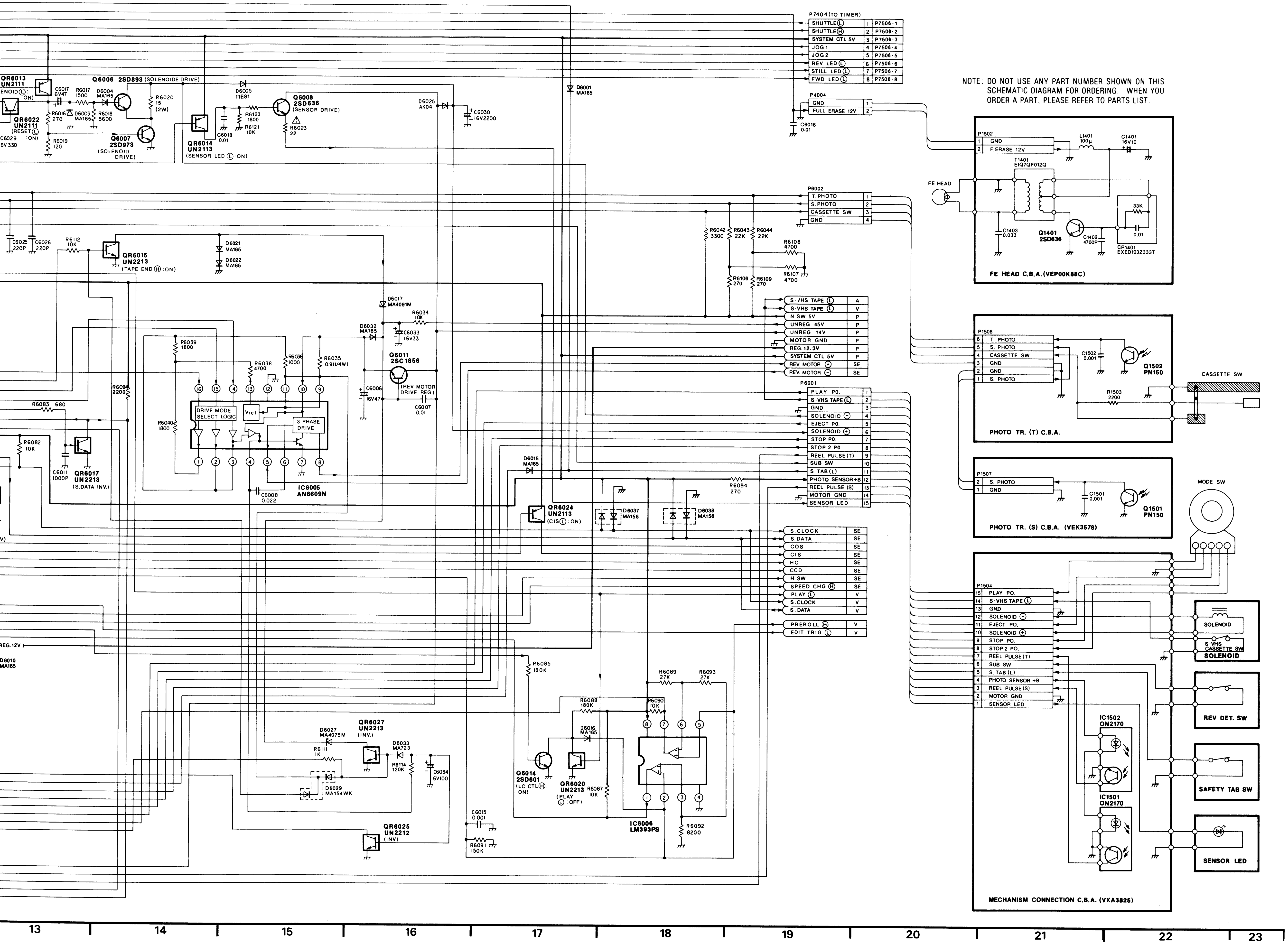
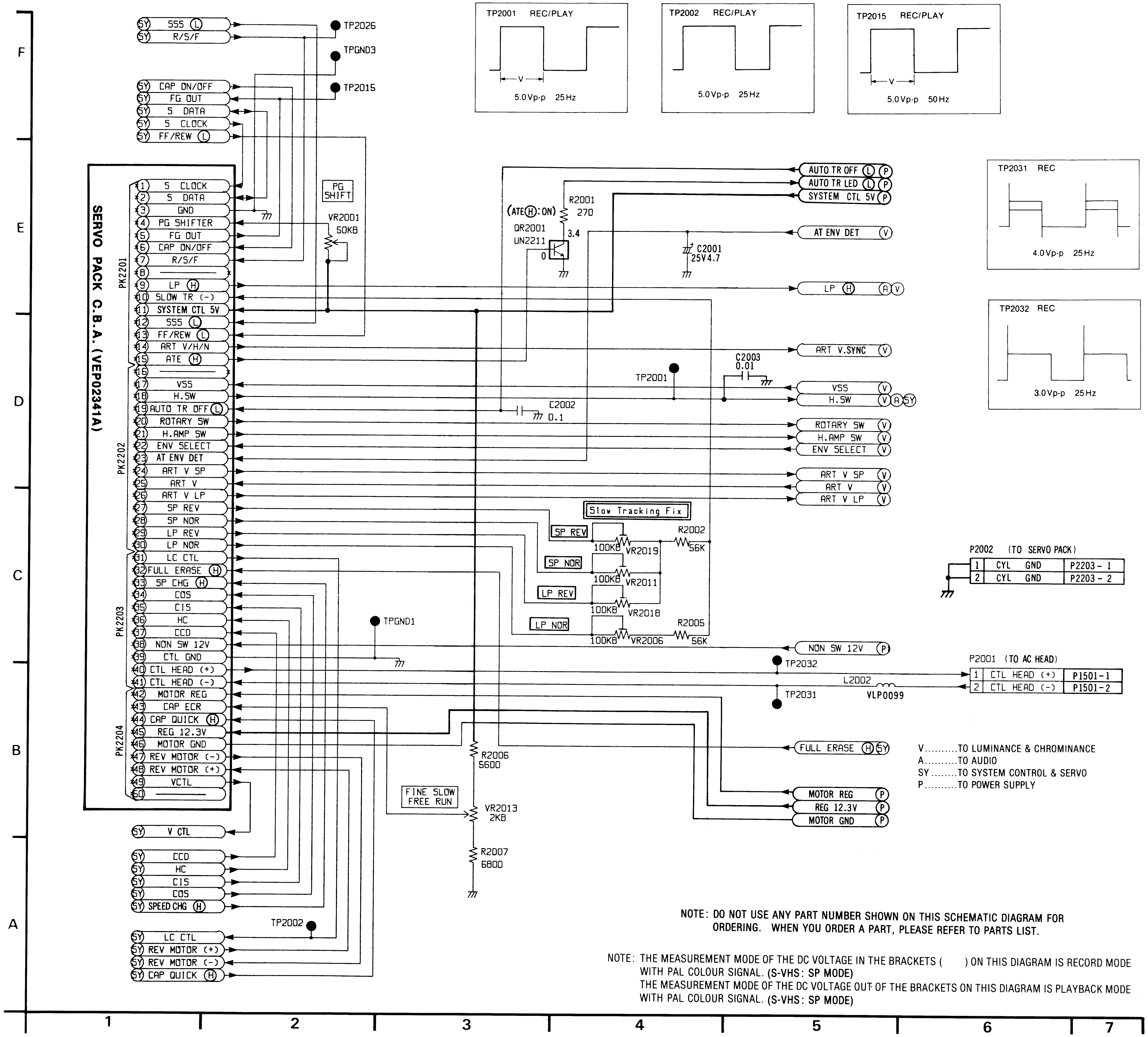

P7404 (TO TIMER)
1 SHUTTLE Ⓛ P7506-1
2 SHUTTLE Ⓗ P7506-2
3 SYSTEM CTL 5V P7506-3
4 JOG 1 P7506-4
5 JOG 2 P7506-5
6 REV LED Ⓛ P7506-6
7 STILL LED Ⓛ P7506-7
8 FWD LED Ⓛ P7506-8
P4004
1 GND
2 FULL ERASE 12V
QR6013 UN2111
Q6006 2SD893 (SOLENOIDE DRIVE)
QR6022 UN2111 (RESET Ⓛ :ON)
Q6007 2SD973 (SOLENOID DRIVE)
QR6014 UN2113 (SENSOR LED Ⓛ :ON)
Q6008 2SD636 (SENSOR DRIVE)
D6001 MA165
D6025 AK04
C6030 16V2200
C6016 0.01
P6002
1 T. PHOTO
2 S. PHOTO
3 CASSETTE SW
4 GND
QR6015 UN2213 (TAPE END Ⓗ :ON)
D6021 MA165
D6022 MA165
D6017 MA4091M
D6032 MA165
Q6011 2SC1856 (REV MOTOR DRIVE REG)
IC6005 AN6609N
DRIVE MODE SELECT LOGIC
Vref
3 PHASE DRIVE
QR6017 UN2213 (S.DATA INV.)
S-/HS TAPE Ⓛ A
S-VHS TAPE Ⓛ V
N SW 5V P
UNREG 45V P
UNREG 14V P
MOTOR GND P
REG.12.3V P
SYSTEM CTL 5V P
REV. MOTOR ⊕ SE
REV. MOTOR ⊖ SE
P6001
1 PLAY P0.
2 S-VHS TAPE Ⓛ
3 GND
4 SOLENOID ⊖
5 EJECT P0.
6 SOLENOID ⊕
7 STOP P0.
8 STOP 2 P0.
9 REEL PULSE (T)
10 SUB SW
11 S. TAB (L)
12 PHOTO SENSOR +B
13 REEL PULSE (S)
14 MOTOR GND
15 SENSOR LED
D6015 MA165
QR6024 UN2113 (CIS Ⓛ :ON)
D6037 MA156
D6038 MA156
S.CLOCK SE
S.DATA SE
COS SE
CIS SE
HC SE
CCD SE
H SW SE
SPEED CHG Ⓗ SE
PLAY Ⓛ V
S.CLOCK V
S.DATA V
PREROLL Ⓗ V
EDIT TRIG Ⓛ V
REG.12V
D6010 MA165
QR6027 UN2213 (INV.)
D6027 MA4075M
D6033 MA723
D6029 MA154WK
QR6025 UN2212 (INV.)
Q6014 2SD601 (LC CTL Ⓗ : ON)
QR6020 UN2213 (PLAY Ⓛ : OFF)
D6016 MA165
IC6006 LM393PS
FE HEAD
P1502
1 GND
2 F.ERASE 12V
L1401 100μ
C1401 16V10
T1401 EIQ7QF012Q
Q1401 2SD636
CR1401 EXED103Z333T
FE HEAD C.B.A. (VEP00K88C)
P1508
6 T. PHOTO
5 S. PHOTO
4 CASSETTE SW
3 GND
2 GND
1 S. PHOTO
Q1502 PN150
CASSETTE SW
PHOTO TR. (T) C.B.A.
P1507
2 S. PHOTO
1 GND
Q1501 PN150
PHOTO TR. (S) C.B.A. (VEK3578)
MODE SW
P1504
15 PLAY PO.
14 S-VHS TAPE Ⓛ
13 GND
12 SOLENOID ⊖
11 EJECT PO.
10 SOLENOID ⊕
9 STOP PO.
8 STOP 2 PO.
7 REEL PULSE (T)
6 SUB SW
5 S. TAB (L)
4 PHOTO SENSOR +B
3 REEL PULSE (S)
2 MOTOR GND
1 SENSOR LED
SOLENOID
S-VHS CASSETTE SW
SOLENOID
REV. DET. SW
IC1502 ON2170
IC1501 ON2170
SAFETY TAB SW
SENSOR LED
MECHANISM CONNECTION C.B.A. (VXA3825)
13
14
15
16
17
18
19
20
21
22
23

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
SERVO Section

3-9. SERVO SCHEMATIC DIAGRAM


TP2001 REC/PLAY
5.0Vp-p 25Hz
TP2002 REC/PLAY
5.0Vp-p 25Hz
TP2015 REC/PLAY
5.0Vp-p 50Hz
TP2031 REC
4.0Vp-p 25Hz
TP2032 REC
3.0Vp-p 25Hz
SSS Ⓛ
R/S/F
CAP ON/OFF
FG OUT
S DATA
S CLOCK
FF/REW Ⓛ
TP2026
TPGND3
TP2015
SERVO PACK C.B.A. (VEP02341A)
PK2201
PK2202
PK2203
PK2204
1 S CLOCK
2 S DATA
3 GND
4 PG SHIFTER
5 FG OUT
6 CAP ON/OFF
7 R/S/F
9 LP Ⓗ
10 SLOW TR (-)
11 SYSTEM CTL 5V
12 SSS Ⓛ
13 FF/REW Ⓛ
14 ART V/H/N
15 ATE Ⓗ
17 VSS
18 H.SW
19 AUTO TR OFF Ⓛ
20 ROTARY SW
21 H.AMP SW
22 ENV SELECT
23 AT ENV DET
24 ART V SP
25 ART V
26 ART V LP
27 SP REV
28 SP NOR
29 LP REV
30 LP NOR
31 LC CTL
32 FULL ERASE Ⓗ
33 SP CHG Ⓗ
34 COS
35 CIS
36 HC
37 CCD
38 NON SW 12V
39 CTL GND
40 CTL HEAD (+)
41 CTL HEAD (-)
42 MOTOR REG
43 CAP ECR
44 CAP QUICK Ⓗ
45 REG 12.3V
46 MOTOR GND
47 REV MOTOR (-)
48 REV MOTOR (+)
49 VCTL
PG SHIFT
VR2001 50KB
(ATEⒽ:ON)
QR2001 UN2211
R2001 270
3.4
0
C2001 25V4.7
AUTO TR OFF Ⓛ Ⓟ
AUTO TR LED Ⓛ Ⓟ
SYSTEM CTL 5V Ⓟ
AT ENV DET Ⓥ
LP Ⓗ Ⓐ Ⓥ
ART V.SYNC Ⓥ
C2003 0.01
TP2001
VSS Ⓥ
H.SW Ⓥ Ⓐ ⓈⓎ
C2002 0.1
ROTARY SW Ⓥ
H.AMP SW Ⓥ
ENV SELECT Ⓥ
ART V SP Ⓥ
ART V Ⓥ
ART V LP Ⓥ
Slow Tracking Fix
SP REV
SP NOR
LP REV
LP NOR
100KB VR2019
100KB VR2011
100KB VR2018
100KB VR2006
R2002 56K
R2005 56K
TPGND1
NON SW 12V Ⓟ
TP2032
TP2031
L2002 VLP0099
P2002 (TO SERVO PACK)
1 CYL GND P2203-1
2 CYL GND P2203-2
P2001 (TO AC HEAD)
1 CTL HEAD (+) P1501-1
2 CTL HEAD (-) P1501-2
FULL ERASE Ⓗ ⓈⓎ
MOTOR REG Ⓟ
REG 12.3V Ⓟ
MOTOR GND Ⓟ
R2006 5600
FINE SLOW FREE RUN
VR2013 2KB
R2007 6800
V CTL
CCD
HC
CIS
COS
SPEED CHG Ⓗ
TP2002
LC CTL
REV MOTOR (+)
REV MOTOR (-)
CAP QUICK Ⓗ
F
E
D
C
B
A
1
2
3
4
5
6
7

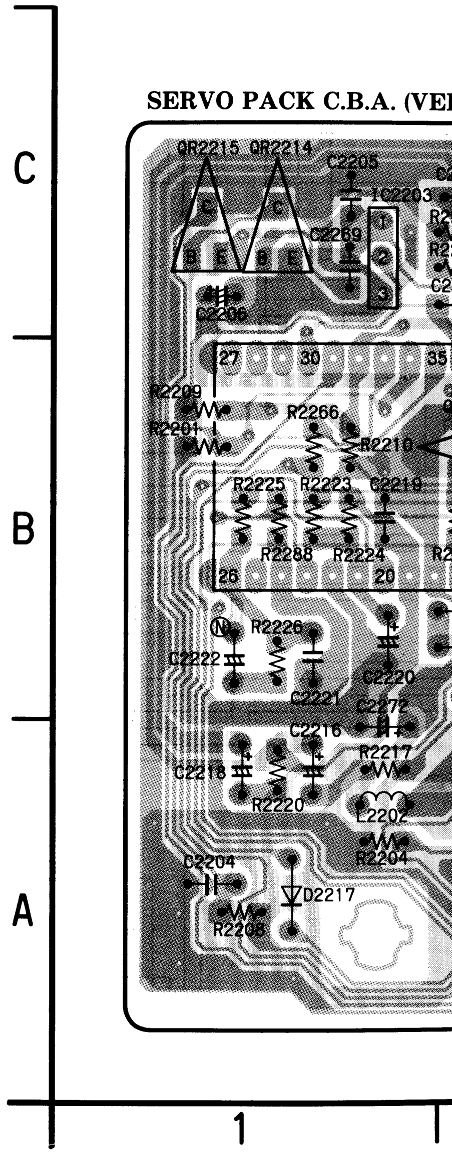
V..........TO LUMINANCE & CHROMINANCE
A..........TO AUDIO
SY........TO SYSTEM CONTROL & SERVO
P..........TO POWER SUPPLY

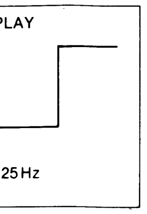
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

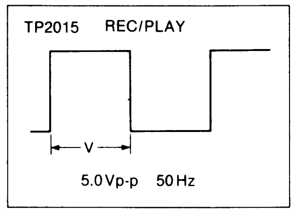
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

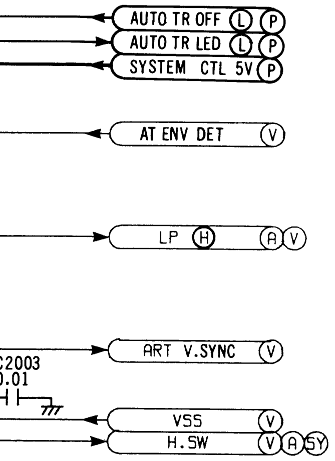
3-10. SERVO PACK C.B.

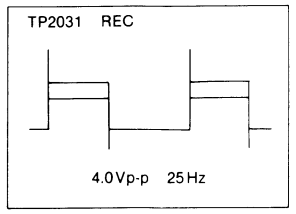
SERVO PACK C.B.A. (VE

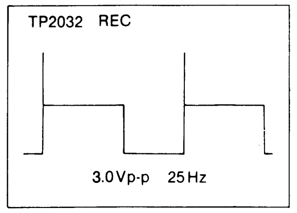

QR2215
QR2214
C2205
IC2203
C2269
C2206
27
30
35
R2209
R2201
R2266
R2210
R2225
R2223
C2219
26
R2288
R2224
20
R2226
C2222
C2220
C2221
C2272
C2216
R2217
C2218
R2220
L2202
C2204
R2204
D2217
R2208
C
B
A
1

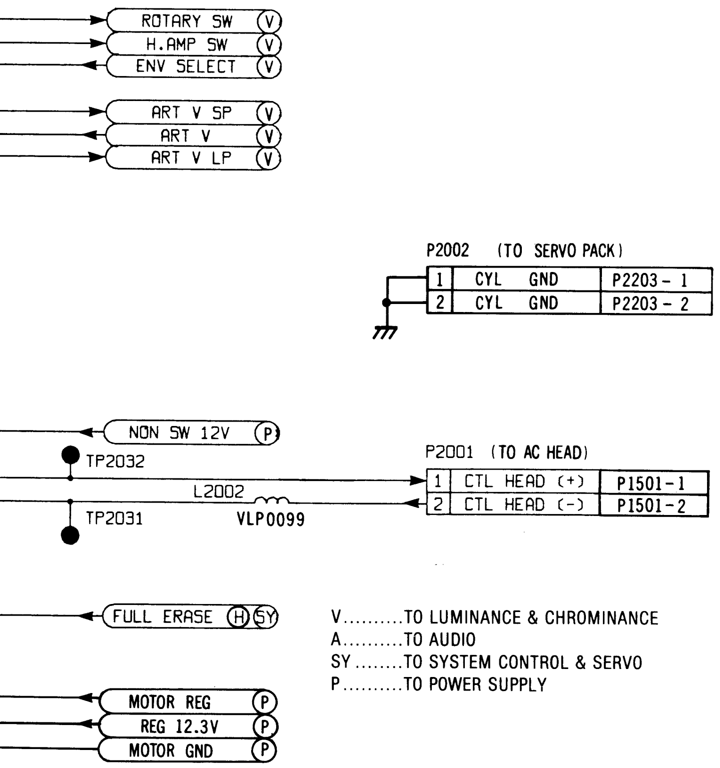





AUTO TR OFF Ⓛ Ⓟ
AUTO TR LED Ⓛ Ⓟ
SYSTEM CTL 5V Ⓟ
AT ENV DET Ⓥ
LP Ⓗ Ⓐ Ⓥ
C2003
0.01
ART V.SYNC Ⓥ
VSS Ⓥ
H.SW Ⓥ Ⓐ ⓈⓎ






ROTARY SW Ⓥ
H.AMP SW Ⓥ
ENV SELECT Ⓥ
ART V SP Ⓥ
ART V Ⓥ
ART V LP Ⓥ
P2002 (TO SERVO PACK)
1 CYL GND P2203 - 1
2 CYL GND P2203 - 2
NON SW 12V Ⓟ
TP2032
P2001 (TO AC HEAD)
L2002
1 CTL HEAD (+) P1501-1
2 CTL HEAD (-) P1501-2
TP2031
VLP0099
FULL ERASE Ⓗ ⓈⓎ
MOTOR REG Ⓟ
REG 12.3V Ⓟ
MOTOR GND Ⓟ

V..........TO LUMINANCE & CHROMINANCE
A..........TO AUDIO
SY........TO SYSTEM CONTROL & SERVO
P..........TO POWER SUPPLY

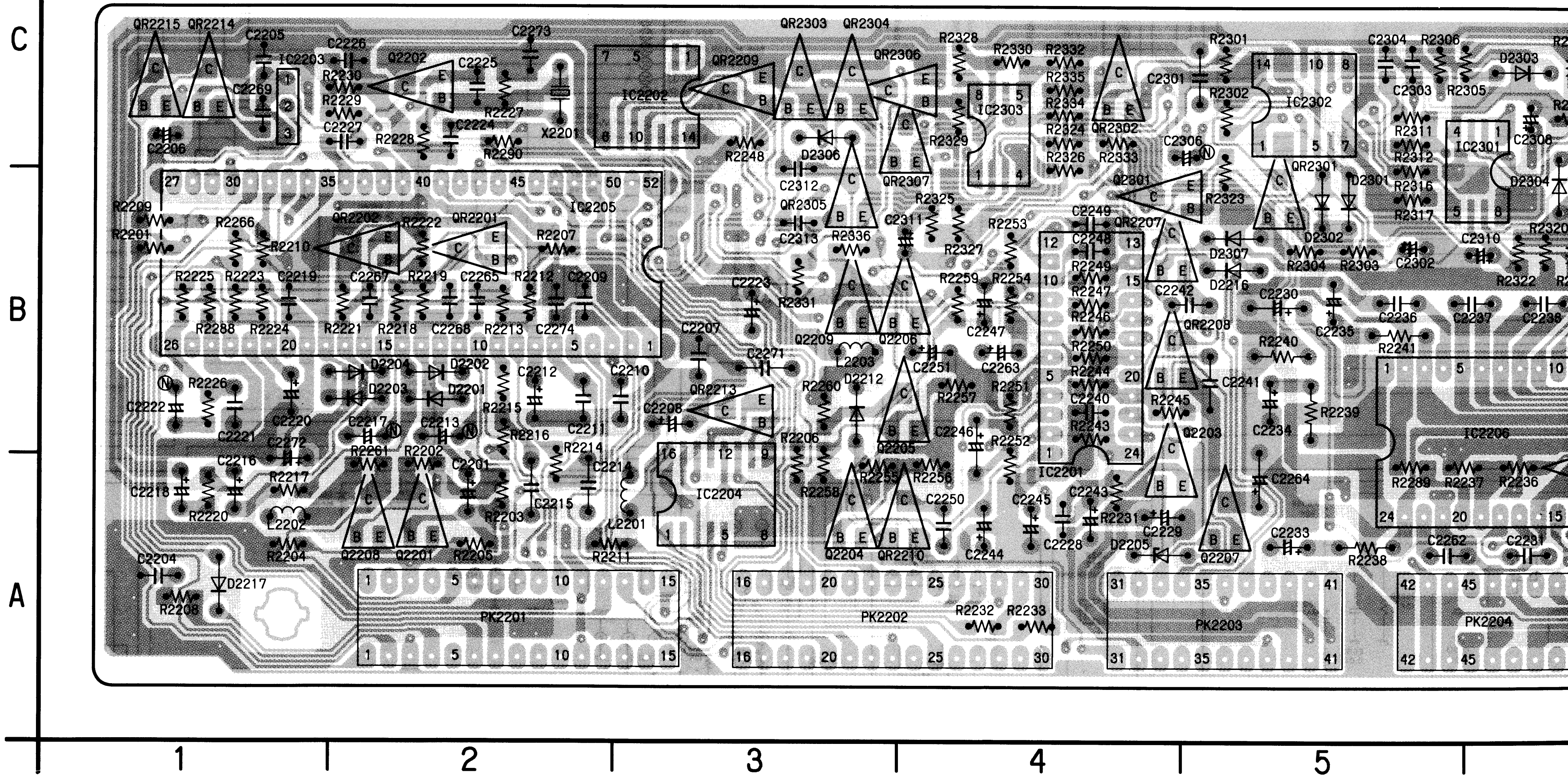
T USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
RING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

ODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
GNAL. (S-VHS: SP MODE)
ODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
GNAL. (S-VHS: SP MODE)

5 6 7

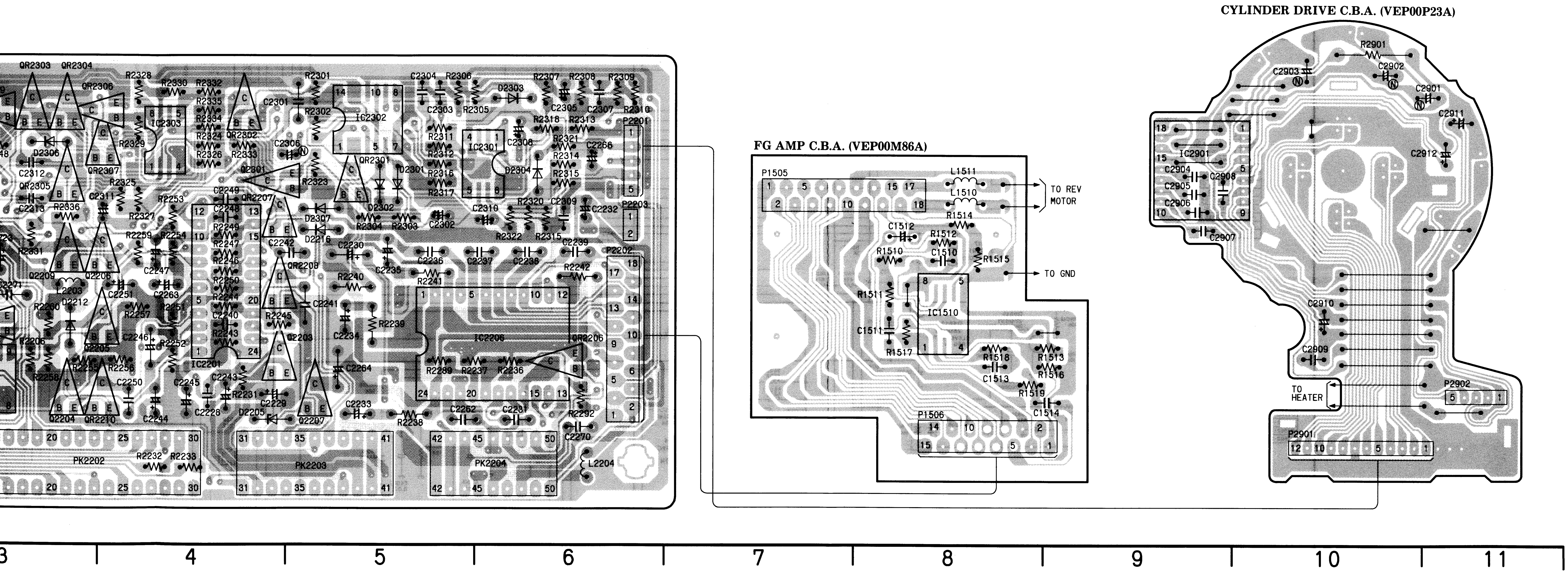
3-10. SERVO PACK C.B.A. (VEP02341A)

SERVO PACK C.B.A. (VEP02341A)


C
B
A
1
2
3
4
5
QR2215
QR2214
IC2203
C2205
C2206
C2226
R2230
R2229
C2227
Q2202
C2225
R2227
C2224
R2228
R2290
C2273
X2201
IC2202
QR2209
QR2303
QR2304
QR2306
D2306
QR2307
R2329
R2328
IC2303
R2330
R2332
R2335
R2334
R2324
R2326
QR2302
R2333
C2301
C2306
R2301
R2302
IC2302
QR2301
D2301
C2304
R2306
D2303
C2303
R2305
R2311
R2312
IC2301
R2316
R2317
C2308
D2304
R2320
C2310
R2322
C2302
R2304
R2303
D2302
QR2201
QR2202
R2222
R2210
R2266
R2209
R2201
IC2205
R2207
R2225
R2223
C2219
C2267
R2219
C2265
R2212
C2209
R2288
R2224
R2221
R2218
C2268
R2213
C2274
R2248
C2312
QR2305
C2313
R2336
C2311
R2325
R2327
R2253
C2223
R2331
C2249
C2248
R2249
R2247
R2246
R2250
R2244
C2240
R2243
QR2207
D2307
D2216
C2242
QR2208
C2230
C2235
C2236
C2237
R2241
R2240
C2207
C2271
Q2209
L2203
Q2206
D2212
C2251
C2247
C2263
R2259
R2254
R2260
R2257
R2251
C2246
R2252
C2241
R2245
Q2203
C2234
R2239
IC2206
R2289
R2237
R2236
C2222
R2226
C2221
C2220
D2204
D2203
D2202
D2201
C2217
C2213
R2215
R2216
C2212
C2211
C2210
C2208
QR2213
R2206
IC2204
C2214
R2214
C2215
L2201
R2211
C2216
C2218
R2220
R2217
C2272
L2202
R2261
R2202
C2201
R2203
R2204
Q2208
Q2201
R2205
Q2205
R2255
R2256
R2258
Q2204
QR2210
C2250
C2244
IC2201
C2243
C2245
C2228
R2231
C2229
D2205
Q2207
C2264
C2233
R2238
C2262
C2231
C2204
R2208
D2217
PK2201
PK2202
R2232
R2233
PK2203
PK2204

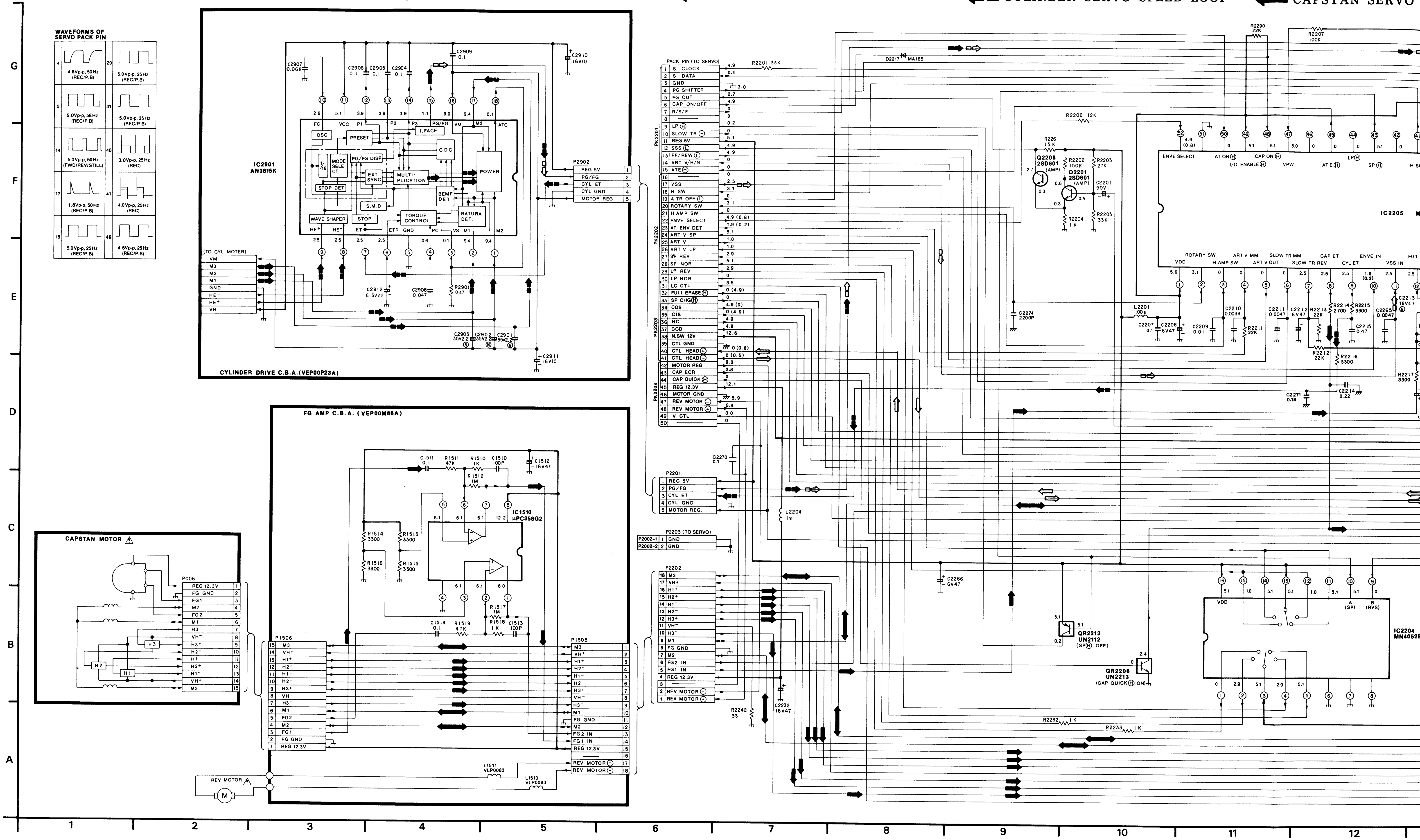
SERVO PACK C.B.A.							
Transistor		Transistor & Resistor		Integrated Circuit		Connector	
Q2201	A-2	QR2201	B-2	IC1510	B-8	P1505	B-7
Q2202	C-2	QR2202	B-2	IC2201	A-4	P1506	A-8
Q2203	B-5	QR2203	C-3	IC2202	C-3	P2201	C-6
Q2204	A-3	QR2204	C-3	IC2203	C-1	P2202	B-6
Q2205	B-3	QR2206	B-6	IC2204	A-3	P2203	B-6
Q2206	B-3	QR2207	B-4	IC2205	B-2	P2901	A-10
Q2207	A-5	QR2208	B-5	IC2206	B-6	P2902	A-11
Q2208	A-2	QR2209	C-3	IC2301	C-6	PK2201	A-2
Q2209	B-3	QR2210	A-3	IC2302	C-5	PK2202	A-3
Q2301	B-4	QR2213	B-3	IC2303	C-4	PK2203	A-5
		QR2214	C-1	IC2901	C-9	PK2204	A-6
		QR2215	C-1				
		QR2301	C-5				
		QR2302	C-4				
		QR2305	B-3				
		QR2306	C-4				
		QR2307	B-4				

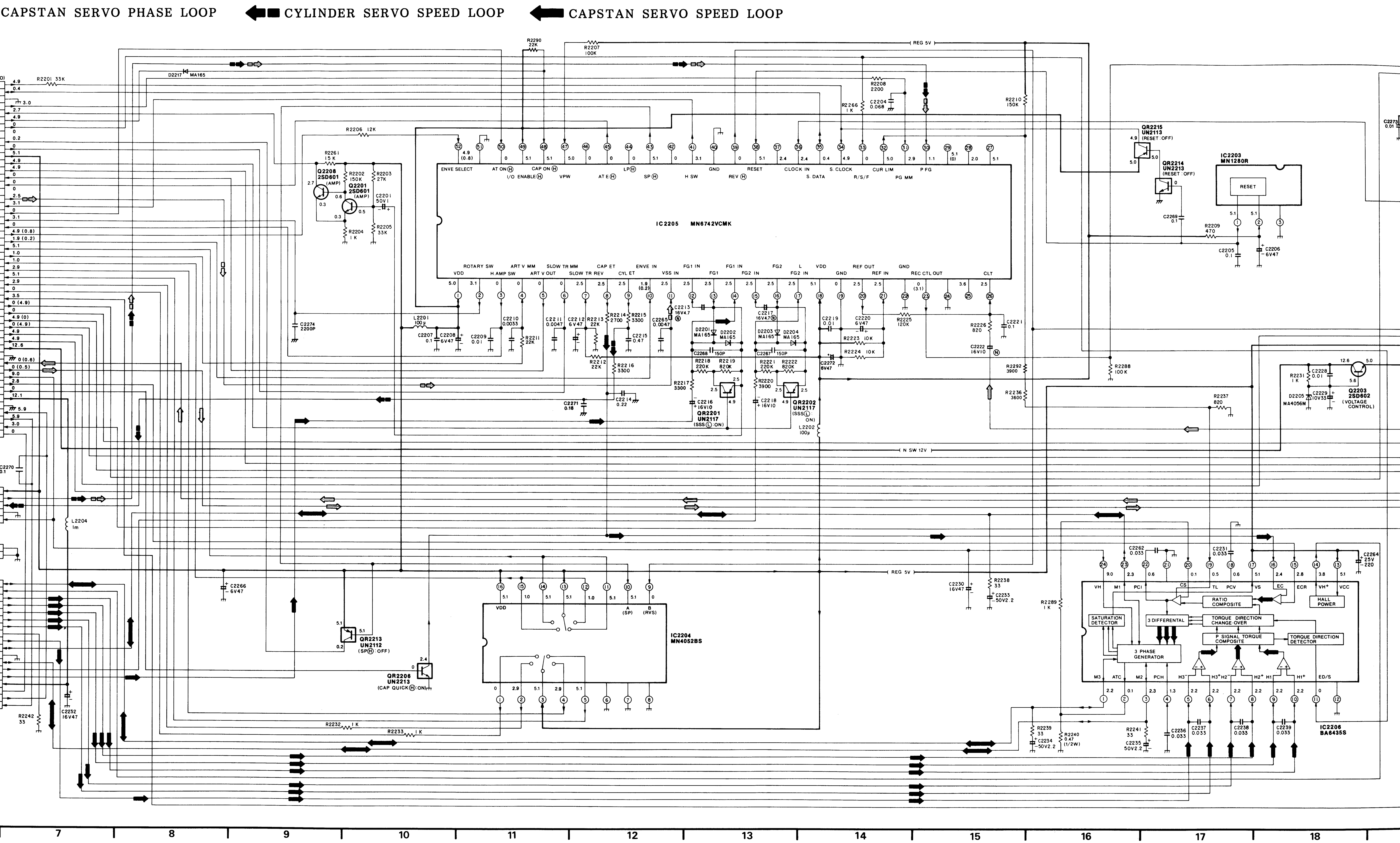
ADDRESS INFORMATION


CYLINDER DRIVE C.B.A. (VEP00P23A)
FG AMP C.B.A. (VEP00M86A)
P1505
L1511
L1510
TO REV MOTOR
R1514
C1512
R1512
C1510
R1510
R1515
TO GND
R1511
IC1510
C1511
R1517
R1518
R1513
C1513
R1516
R1519
C1514
P1506
R2901
C2903
C2902
C2901
C2911
C2912
IC2901
C2904
C2905
C2906
C2908
C2907
C2910
C2909
TO HEATER
P2902
P2901
IC2302
IC2301
IC2303
IC2201
IC2206
P2201
P2202
P2203
PK2202
PK2203
PK2204
L2204
3
4
5
6
7
8
9
10
11

3-11. SERVO PACK SCHEMATIC DIAGRAM

CYLINDER SERVO PHASE LOOP   CAPSTAN SERVO PHASE LOOP   CYLINDER SERVO SPEED LOOP   CAPSTAN SERVO


WAVEFORMS OF SERVO PACK PIN
4 4.8Vp-p, 50Hz (REC/P.B)
20 5.0Vp-p, 25Hz (REC/P.B)
5 5.0Vp-p, 58Hz (REC/P.B)
31 5.0Vp-p, 25Hz (REC/P.B)
14 5.0Vp-p, 50Hz (FWD/REV/STILL)
40 3.0Vp-p, 25Hz (REC)
17 1.8Vp-p, 50Hz (REC/P.B)
41 4.0Vp-p, 25Hz (REC)
18 5.0Vp-p, 25Hz (REC/P.B)
49 4.5Vp-p, 25Hz (REC/P.B)
IC2901 AN3815K
CYLINDER DRIVE C.B.A. (VEP00P23A)
(TO CYL MOTER)
VM
M3
M2
M1
GND
HE−
HE+
VH
P2902
REG 5V
PG/FG
CYL ET
CYL GND
MOTOR REG
FG AMP C.B.A. (VEP00M86A)
IC1510 μPC358G2
P1506
P1505
CAPSTAN MOTOR
P006
REG 12.3V
FG GND
FG1
M2
FG2
M1
H3−
H3+
H2−
H1−
H2+
H1+
VH+
M3
REV MOTOR
L1511 VLP0083
L1510 VLP0083
PACK PIN (TO SERVO)
PK2201
PK2202
PK2203
PK2204
1 S. CLOCK
2 S. DATA
3 GND
4 PG SHIFTER
5 FG OUT
6 CAP ON/OFF
7 R/S/F
8
9 LP Ⓗ
10 SLOW TR ㊀
11 REG 5V
12 SSS Ⓛ
13 FF/REW Ⓛ
14 ART V/H/N
15 ATE Ⓗ
16
17 VSS
18 H SW
19 A TR OFF Ⓛ
20 ROTARY SW
21 H AMP SW
22 ENVE SELECT
23 AT ENV DET
24 ART V SP
25 ART V
26 ART V LP
27 SP REV
28 SP NOR
29 LP REV
30 LP NOR
31 LC CTL
32 FULL ERASE Ⓗ
33 SP CHG Ⓗ
34 COS
35 CIS
36 HC
37 CCD
38 N.SW 12V
39 CTL GND
40 CTL HEAD ⊕
41 CTL HEAD ㊀
42 MOTOR REG
43 CAP ECR
44 CAP QUICK Ⓗ
45 REG 12.3V
46 MOTOR GND
47 REV MOTOR ㊀
48 REV MOTOR ⊕
49 V CTL
50
P2201
P2203 (TO SERVO)
P2002-1 GND
P2002-2 GND
P2202
Q2208 2SD601 (AMP)
Q2201 2SD601 (AMP)
D2217 MA165
IC2205
IC2204 MN4052B
QR2213 UN2112 (SP Ⓗ : OFF)
QR2206 UN2213 (CAP QUICK Ⓗ : ON)
ENVE SELECT
AT ON Ⓗ
CAP ON Ⓗ
I/O ENABLE Ⓗ
VPW
ATE Ⓗ
LP Ⓗ
SP Ⓗ
ROTARY SW
H.AMP SW
ART V MM
ART V OUT
SLOW TR MM
SLOW TR REV
CAP ET
CYL ET
ENVE IN
VSS IN
VDD
A (SP)
B (RVS)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12


CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
REG 5V
N SW 12V
IC2205 MN6742VCMK
ENVE SELECT
AT ON Ⓗ
CAP ON Ⓗ
I/O ENABLE Ⓗ
VPW
AT E Ⓗ
LP Ⓗ
SP Ⓗ
H SW
GND
REV Ⓗ
RESET
CLOCK IN
S. DATA
S. CLOCK
R/S/F
CUR LIM
PG MM
P FG
VDD
ROTARY SW
H.AMP SW
ART V MM
ART V OUT
SLOW TR MM
SLOW TR REV
CAP ET
CYL ET
ENVE IN
VSS IN
FG1 IN
FG1
FG2 IN
FG2
L
REF OUT
REF IN
REC CTL OUT
CLT
Q2208 2SD601 (AMP)
Q2201 2SD601 (AMP)
QR2215 UN2113 (RESET : OFF)
QR2214 UN2213 (RESET : OFF)
IC2203 MN1280R
RESET
QR2201 UN2117 (SSS Ⓛ : ON)
QR2202 UN2117 (SSS Ⓛ : ON)
Q2203 2SD602 (VOLTAGE CONTROL)
D2205 MA4056M
D2217 MA165
D2201 MA165
D2202 MA165
D2203 MA165
D2204 MA165
QR2213 UN2112 (SP Ⓗ : OFF)
QR2206 UN2213 (CAP QUICK Ⓗ : ON)
IC2204 MN4052BS
VDD
A (SP)
B (RVS)
IC2206 BA6435S
VH
M1
PCI
CS
TL
PCV
VS
EC
ECR
VH+
VCC
RATIO COMPOSITE
HALL POWER
SATURATION DETECTOR
3 DIFFERENTAL
TORQUE DIRECTION CHANGE-OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
3 PHASE GENERATOR
M3
ATC
M2
PCH
H3-
H3+
H2-
H2+
H1-
H1+
ED/S
R2201 33K
R2206 12K
R2261 15K
R2202 150K
R2203 27K
R2204 1K
R2205 33K
R2290 22K
R2207 100K
R2208 2200
R2266 1K
R2210 150K
R2209 470
R2211 22K
R2212 22K
R2213 22K
R2214 2700
R2215 3300
R2216 3300
R2217 3300
R2218 220K
R2219 820K
R2220 3900
R2221 220K
R2222 820K
R2223 10K
R2224 10K
R2225 120K
R2226 820
R2231 1K
R2232 1K
R2233 1K
R2236 3600
R2237 820
R2238 33
R2239 33
R2240 0.47 (1/2W)
R2241 33
R2242 33
R2288 100K
R2289 1K
R2292 3900
C2201 50V1
C2204 0.068
C2205 0.1
C2206 6V47
C2207 0.1
C2208 6V47
C2209 0.01
C2210 0.0033
C2211 0.0047
C2212 6V47
C2213 16V4.7 Ⓝ
C2214 0.22
C2215 0.47
C2216 16V10
C2217 16V4.7 Ⓝ
C2218 16V10
C2219 0.01
C2220 6V47
C2221 0.1
C2222 16V10 Ⓝ
C2228 0.01
C2229 10V33
C2230 16V47
C2231 0.033
C2232 16V47
C2233 50V2.2
C2234 50V2.2
C2235 50V2.2
C2236 0.033
C2237 0.033
C2238 0.033
C2239 0.033
C2262 0.033
C2264 25V 220
C2265 0.0047
C2266 6V47
C2267 150P
C2268 150P
C2269 0.1
C2270 0.1
C2271 0.18
C2272 6V47
C2273 0.01
C2274 2200P
L2201 100µ
L2202 100µ
L2204 1m
7
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12
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14
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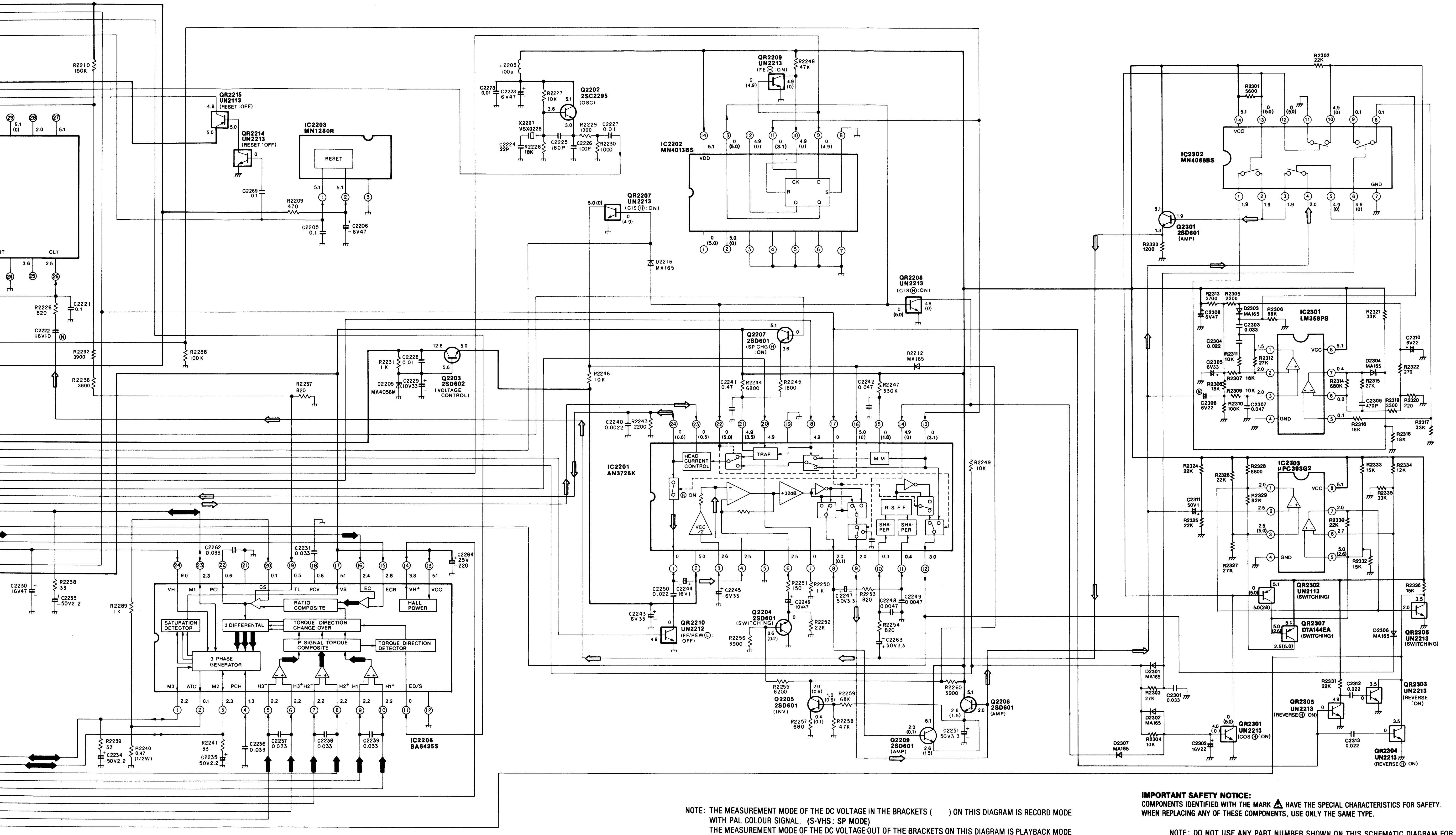
16
17
18


IC2203 MN1280R
RESET
QR2215 UN2113 (RESET: OFF)
QR2214 UN2213 (RESET: OFF)
Q2202 2SC2295 (OSC)
X2201 VSX0225
L2203 100µ
QR2209 UN2213 (FE Ⓗ: ON)
IC2202 MN4013BS
QR2207 UN2213 (CIS Ⓗ: ON)
D2216 MA165
QR2208 UN2213 (CIS Ⓗ: ON)
Q2207 2SD601 (SP CHG Ⓗ: ON)
Q2203 2SD602 (VOLTAGE CONTROL)
D2205 MA4056M
D2212 MA165
IC2201 AN3726K
HEAD CURRENT CONTROL
TRAP
M.M
+32dB
R·S F.F
SHAPER
VCC/2
QR2210 UN2212 (FF/REW Ⓛ: OFF)
Q2204 2SD601 (SWITCHING)
Q2205 2SD601 (INV.)
Q2209 2SD601 (AMP)
Q2206 2SD601 (AMP)
IC2206 BA6435S
SATURATION DETECTOR
3 DIFFERENTAL
3 PHASE GENERATOR
RATIO COMPOSITE
TORQUE DIRECTION CHANGE-OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
HALL POWER
IC2302 MN4066BS
Q2301 2SD601 (AMP)
IC2301 LM358PS
IC2303 µPC393G2
QR2302 UN2113 (SWITCHING)
QR2307 DTA144EA (SWITCHING)
QR2306 UN2213 (SWITCHING)
QR2301 UN2213 (COS Ⓗ: ON)
QR2305 UN2213 (REVERSE Ⓗ: ON)
QR2303 UN2213 (REVERSE: ON)
QR2304 UN2213 (REVERSE Ⓗ: ON)
D2301 MA165
D2302 MA165
D2306 MA165
D2307 MA165
15
16
17
18
19
20
21
22
23
24
25
26

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

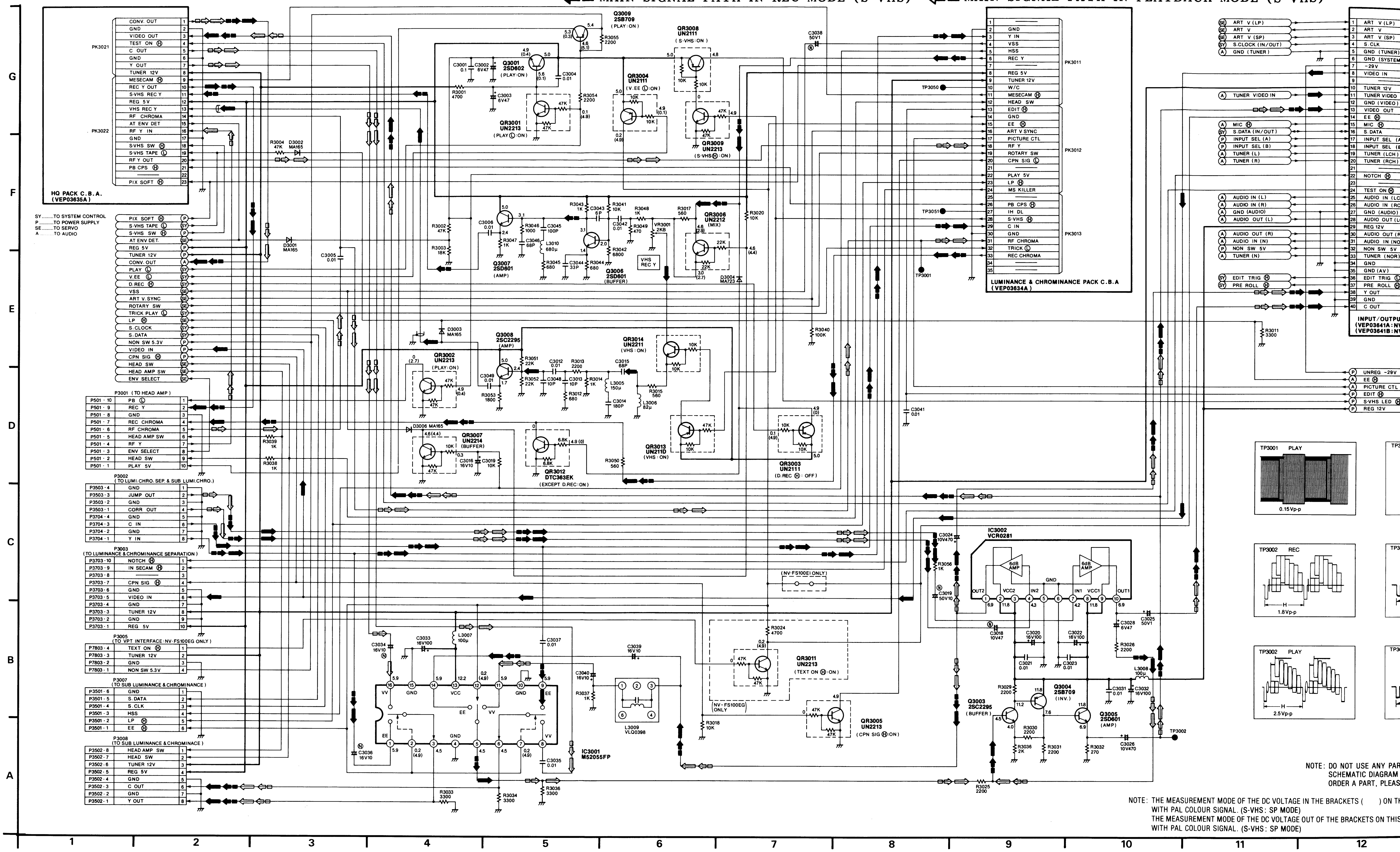
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
LUMINANCE & CHROMINANCE Section

3-12. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

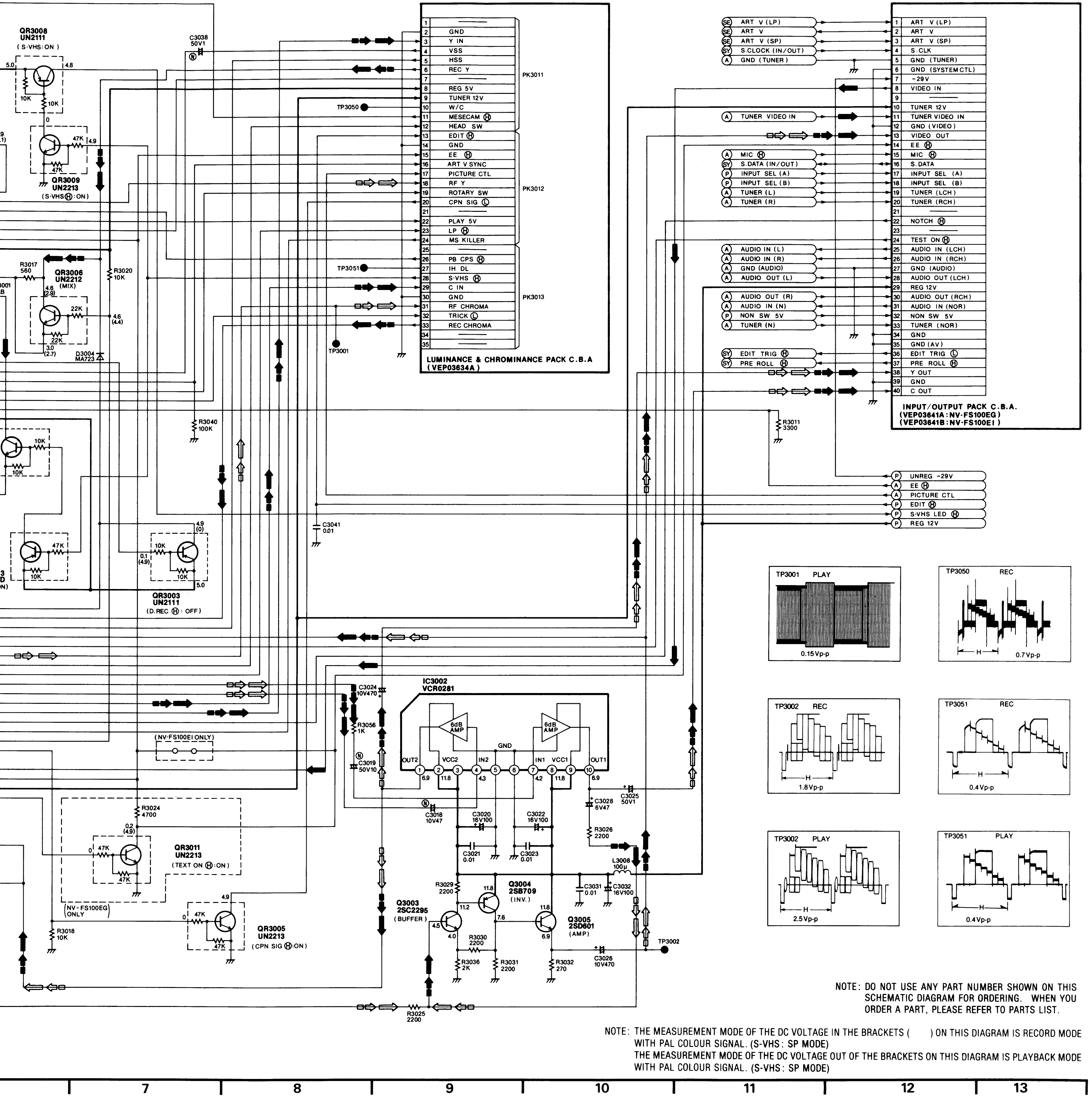
MAIN SIGNAL PATH IN REC MODE (VHS)
MAIN SIGNAL PATH IN REC MODE (S-VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)


HQ PACK C.B.A.
(VEP03635A)
PK3021
PK3022
CONV. OUT
GND
VIDEO OUT
TEST ON Ⓗ
C OUT
Y OUT
TUNER 12V
MESECAM Ⓗ
REC Y OUT
S-VHS REC Y
REG 5V
VHS REC Y
RF CHROMA
AT ENV DET
RF Y IN
S-VHS SW Ⓗ
S-VHS TAPE Ⓛ
RF Y OUT
PB CPS Ⓗ
PIX SOFT Ⓗ
SY……TO SYSTEM CONTROL
P……TO POWER SUPPLY
SE……TO SERVO
A……TO AUDIO
P3001 (TO HEAD AMP)
P3002 (TO LUMI.CHRO.SEP & SUB LUMI.CHRO.)
P3003 (TO LUMINANCE & CHROMINANCE SEPARATION)
P3005 (TO VPT INTERFACE: NV-FS100EG ONLY)
P3007 (TO SUB LUMINANCE & CHROMINANCE)
P3008 (TO SUB LUMINANCE & CHROMINANCE)
Q3009
2SB709
(PLAY: ON)
Q3001
2SD602
(PLAY: ON)
QR3001
UN2213
(PLAY Ⓛ: ON)
QR3004
UN2111
(V.EE Ⓛ: ON)
QR3008
UN2111
(S-VHS: ON)
QR3009
UN2213
(S-VHS Ⓗ: ON)
Q3007
2SD601
(AMP)
Q3006
2SD601
(BUFFER)
QR3006
UN2212
(MIX)
VHS REC Y
D3001
MA165
D3002
MA165
D3003
MA165
D3004
MA723
D3006 MA165
Q3008
2SC2295
(AMP)
QR3002
UN2213
(PLAY: ON)
QR3014
UN2211
(VHS: ON)
QR3007
UN2214
(BUFFER)
QR3012
DTC363EK
(EXCEPT D.REC: ON)
QR3013
UN211D
(VHS: ON)
QR3003
UN2111
(D.REC Ⓗ: OFF)
IC3001
M52055FP
L3009
VLQ0398
QR3011
UN2213
(TEXT ON Ⓗ: ON)
QR3005
UN2213
(CPN SIG Ⓗ: ON)
(NV-FS100EG) ONLY
(NV-FS100E) ONLY)
IC3002
VCR0281
6dB AMP
Q3003
2SC2295
(BUFFER)
Q3004
2SB709
(INV.)
Q3005
2SD601
(AMP)
TP3001
TP3002
TP3050
TP3051
PK3011
PK3012
PK3013
LUMINANCE & CHROMINANCE PACK C.B.A
(VEP03634A)
INPUT/OUTPU
(VEP03641A: NV
(VEP03641B: NV
TP3001 PLAY
0.15Vp-p
TP3002 REC
1.8Vp-p
TP3002 PLAY
2.5Vp-p
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G

NOTE: DO NOT USE ANY PAR
SCHEMATIC DIAGRAM
ORDER A PART, PLEAS

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON TH
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

GNAL PATH IN REC MODE (VHS) ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
GNAL PATH IN REC MODE (S-VHS) ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

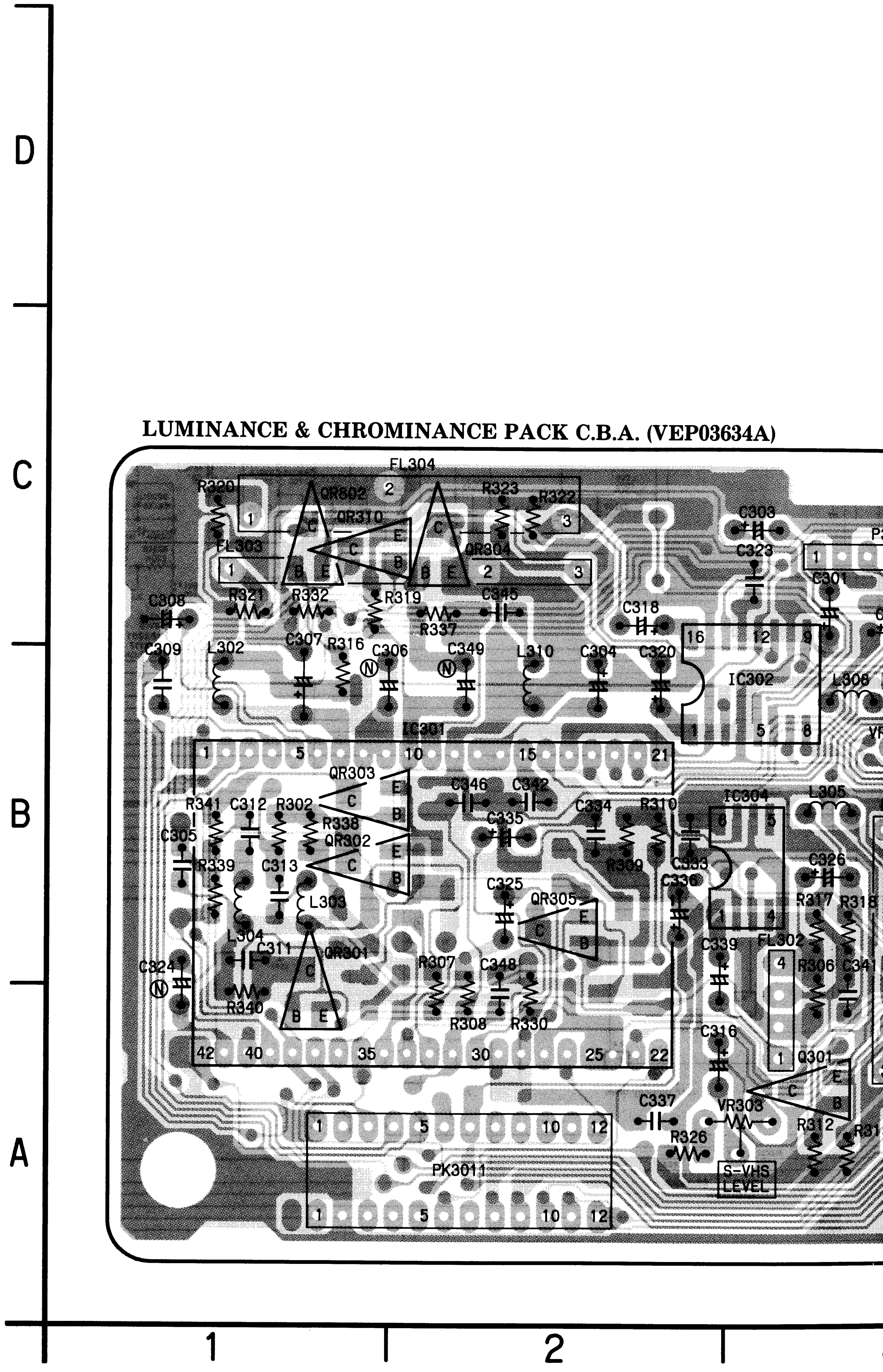

PK3011
PK3012
PK3013
1
2 GND
3 Y IN
4 VSS
5 HSS
6 REC Y
8 REG 5V
9 TUNER 12V
10 W/C
11 MESECAM Ⓗ
12 HEAD SW
13 EDIT Ⓗ
14 GND
15 EE Ⓗ
16 ART V SYNC
17 PICTURE CTL
18 RF Y
19 ROTARY SW
20 CPN SIG Ⓛ
22 PLAY 5V
23 LP Ⓗ
24 MS KILLER
26 PB CPS Ⓗ
27 IH DL
28 S-VHS Ⓗ
29 C IN
30 GND
31 RF CHROMA
32 TRICK Ⓛ
33 REC CHROMA
LUMINANCE & CHROMINANCE PACK C.B.A (VEP03634A)
1 ART V (LP)
2 ART V
3 ART V (SP)
4 S.CLK
5 GND (TUNER)
6 GND (SYSTEM CTL)
7 -29V
8 VIDEO IN
10 TUNER 12V
11 TUNER VIDEO IN
12 GND (VIDEO)
13 VIDEO OUT
14 EE Ⓗ
15 MIC Ⓗ
16 S.DATA
17 INPUT SEL (A)
18 INPUT SEL (B)
19 TUNER (LCH)
20 TUNER (RCH)
22 NOTCH Ⓗ
24 TEST ON Ⓗ
25 AUDIO IN (LCH)
26 AUDIO IN (RCH)
27 GND (AUDIO)
28 AUDIO OUT (LCH)
29 REG 12V
30 AUDIO OUT (RCH)
31 AUDIO IN (NOR)
32 NON SW 5V
33 TUNER (NOR)
34 GND
35 GND (AV)
36 EDIT TRIG Ⓛ
37 PRE ROLL Ⓗ
38 Y OUT
39 GND
40 C OUT
INPUT/OUTPUT PACK C.B.A. (VEP03641A: NV-FS100EG) (VEP03641B: NV-FS100EI)
ART V (LP)
ART V
ART V (SP)
S.CLOCK (IN/OUT)
GND (TUNER)
TUNER VIDEO IN
MIC Ⓗ
S.DATA (IN/OUT)
INPUT SEL (A)
INPUT SEL (B)
TUNER (L)
TUNER (R)
AUDIO IN (L)
AUDIO IN (R)
GND (AUDIO)
AUDIO OUT (L)
AUDIO OUT (R)
AUDIO IN (N)
NON SW 5V
TUNER (N)
EDIT TRIG Ⓗ
PRE ROLL Ⓗ
UNREG -29V
EE Ⓗ
PICTURE CTL
EDIT Ⓗ
S-VHS LED Ⓗ
REG 12V
QR3008 UN2111 (S-VHS: ON)
QR3009 UN2213 (S-VHS Ⓗ: ON)
QR3006 UN2212 (MIX)
QR3003 UN2111 (D.REC Ⓗ: OFF)
QR3011 UN2213 (TEXT ON Ⓗ: ON)
QR3005 UN2213 (CPN SIG Ⓗ: ON)
D3004 MA723
IC3002 VCR0281
6dB AMP
OUT2 VCC2 IN2 GND IN1 VCC1 OUT1
Q3003 2SC2295 (BUFFER)
Q3004 2SB709 (INV.)
Q3005 2SD601 (AMP)
(NV-FS100EI ONLY)
(NV-FS100EG) ONLY
TP3001
TP3002
TP3050
TP3051
TP3001 PLAY 0.15Vp-p
TP3050 REC 0.7Vp-p
TP3002 REC 1.8Vp-p
TP3051 REC 0.4Vp-p
TP3002 PLAY 2.5Vp-p
TP3051 PLAY 0.4Vp-p
7
8
9
10
11
12
13

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

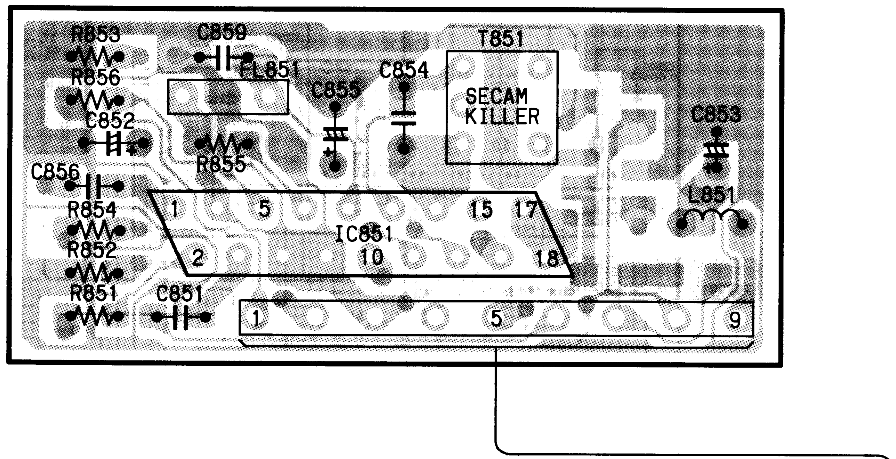
3-13. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03634

LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03634A)

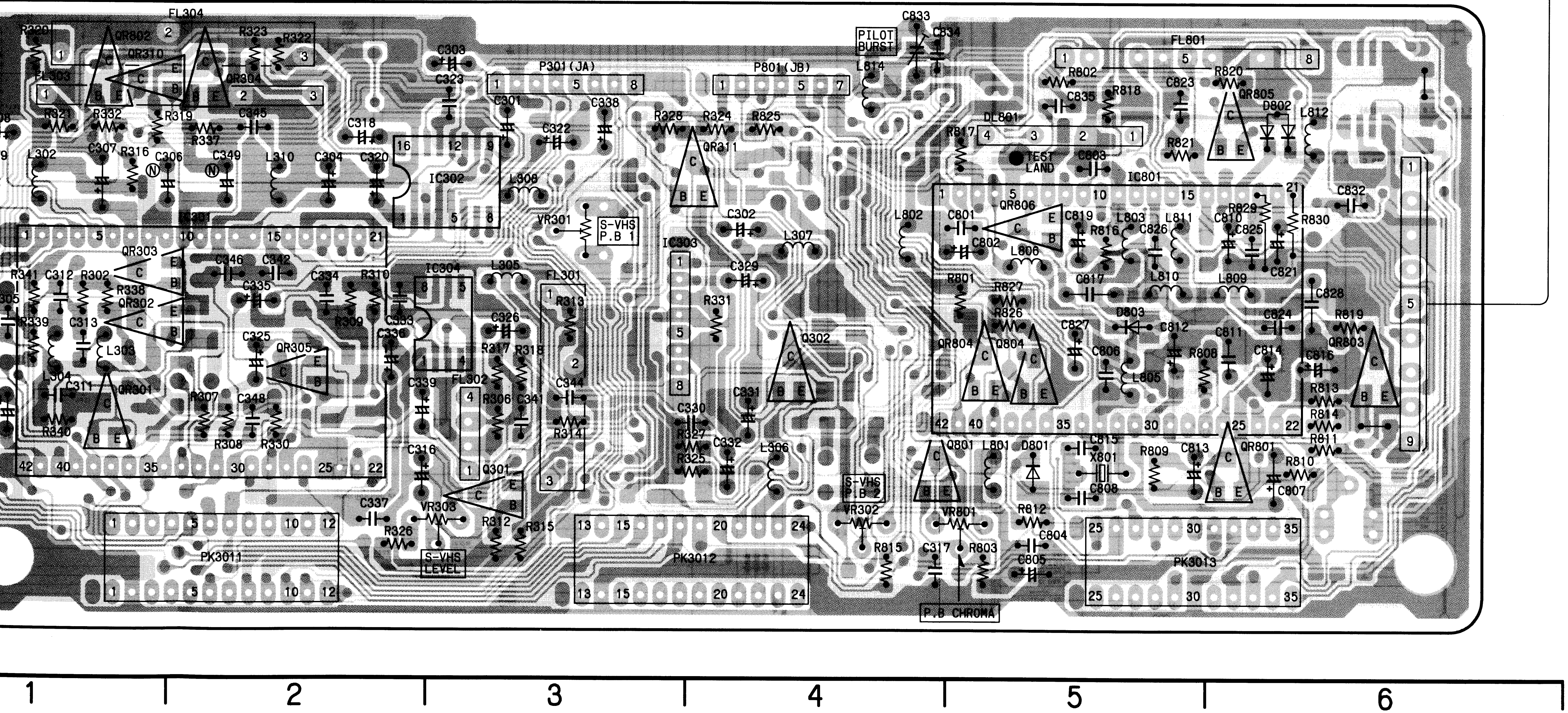

D
C
B
A
1
2
FL304
FL303
FL302
QR802
QR310
QR304
QR303
QR302
QR301
QR305
IC301
IC302
IC304
PK3011
VR303
S-VHS LEVEL
L302
L303
L304
L305
L306
L310
R320
R321
R332
R319
R337
R316
R341
R302
R338
R339
R340
R307
R308
R330
R309
R310
R317
R318
R306
R312
R326
R323
R322
C303
C323
C301
C308
C309
C307
C306
C349
C345
C318
C304
C320
C312
C305
C313
C311
C324
C346
C342
C335
C334
C325
C348
C333
C336
C339
C326
C316
C337

NANCE & CHROMINANCE PACK C.B.A. (VEP03634A)

DDR SECAM PACK C.B.A. (VEP03673A)


R853
C859
FL851
C855
C854
T851
SECAM KILLER
C853
R856
C852
R855
C856
R854
R852
R851
C851
IC851
L851

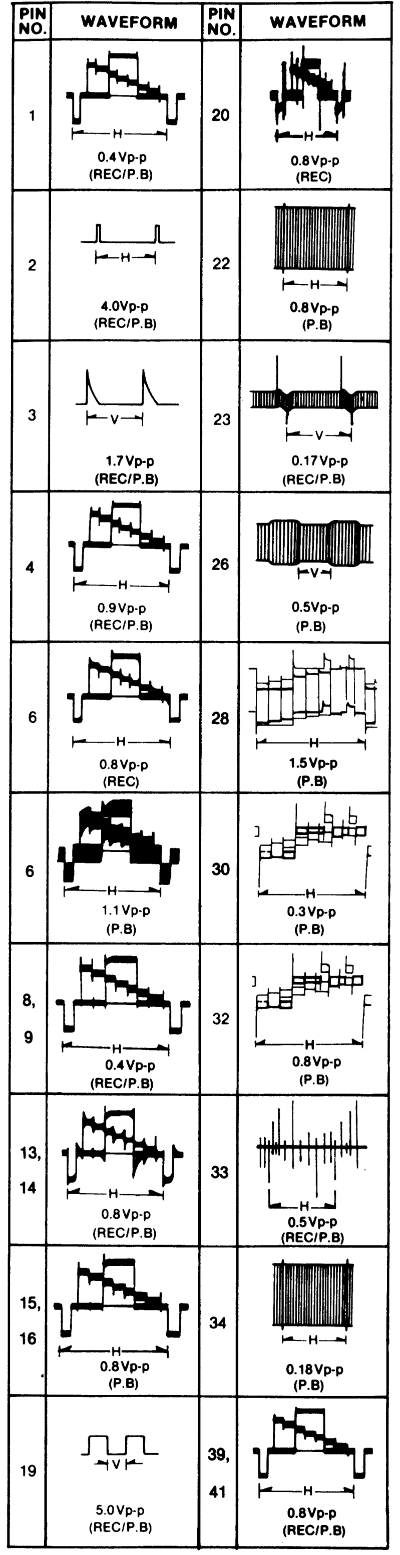
MINANCE & CHROMINANCE PACK C.B.A. (VEP03634A)


FL304
FL303
QR802
QR310
QR304
IC302
IC303
IC304
IC801
P301(JA)
P801(JB)
PILOT BURST
C833
DL801
TEST LAND
FL801
FL301
FL302
VR301
S-VHS P.B 1
S-VHS P.B 2
VR302
VR303
S-VHS LEVEL
VR801
P.B CHROMA
X801
PK3011
PK3012
PK3013
Q301
Q302
Q801
Q804
QR301
QR302
QR303
QR305
QR311
QR801
QR803
QR804
QR805
QR806
1
2
3
4
5
6

LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	A-3
Q302	B-4
Q801	A-5
Q804	B-5
Transistor & Resistor	
QR301	B-1
QR302	B-1
QR303	B-1
QR304	C-2
QR305	B-2
QR310	C-1
QR311	C-4
QR801	A-6
QR802	C-1
QR803	B-6
QR804	B-5
QR805	C-6
QR806	B-5
Integrated Circuit	
IC301	B-2
IC302	B-3
IC303	B-3
IC304	B-3
IC801	B-5
IC851	D-6
Adjustment	
C833	C-4
T851	D-6
VR301	B-3
VR302	A-4
VR303	A-3
VR801	A-5
Connector	
P301	C-3
P801	C-4
PK3011	A-2
PK3012	A-4
PK3013	A-5

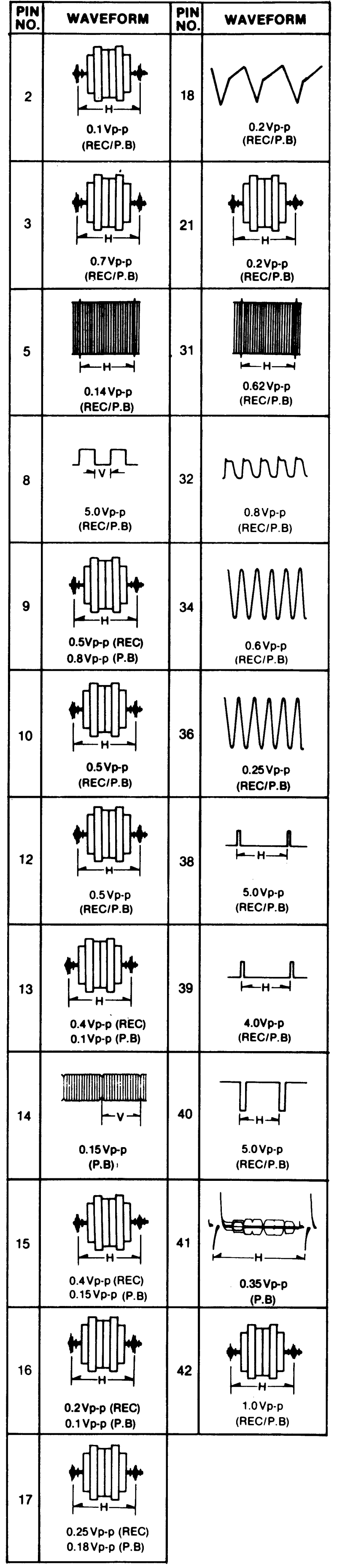
ADDRESS INFORMATION

IC301 (VEFH07C)
(S-VHS: SP MODE)



PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	H 0.4Vp-p (REC/P.B)	20	H 0.8Vp-p (REC)
2	H 4.0Vp-p (REC/P.B)	22	H 0.8Vp-p (P.B)
3	V 1.7Vp-p (REC/P.B)	23	V 0.17Vp-p (REC/P.B)
4	H 0.9Vp-p (REC/P.B)	26	V 0.5Vp-p (P.B)
6	H 0.8Vp-p (REC)	28	H 1.5Vp-p (P.B)
6	H 1.1Vp-p (P.B)	30	H 0.3Vp-p (P.B)
8, 9	H 0.4Vp-p (REC/P.B)	32	H 0.8Vp-p (P.B)
13, 14	H 0.8Vp-p (REC/P.B)	33	H 0.5Vp-p (REC/P.B)
15, 16	H 0.8Vp-p (P.B)	34	H 0.18Vp-p (P.B)
19	V 5.0Vp-p (REC/P.B)	39, 41	H 0.8Vp-p (REC/P.B)

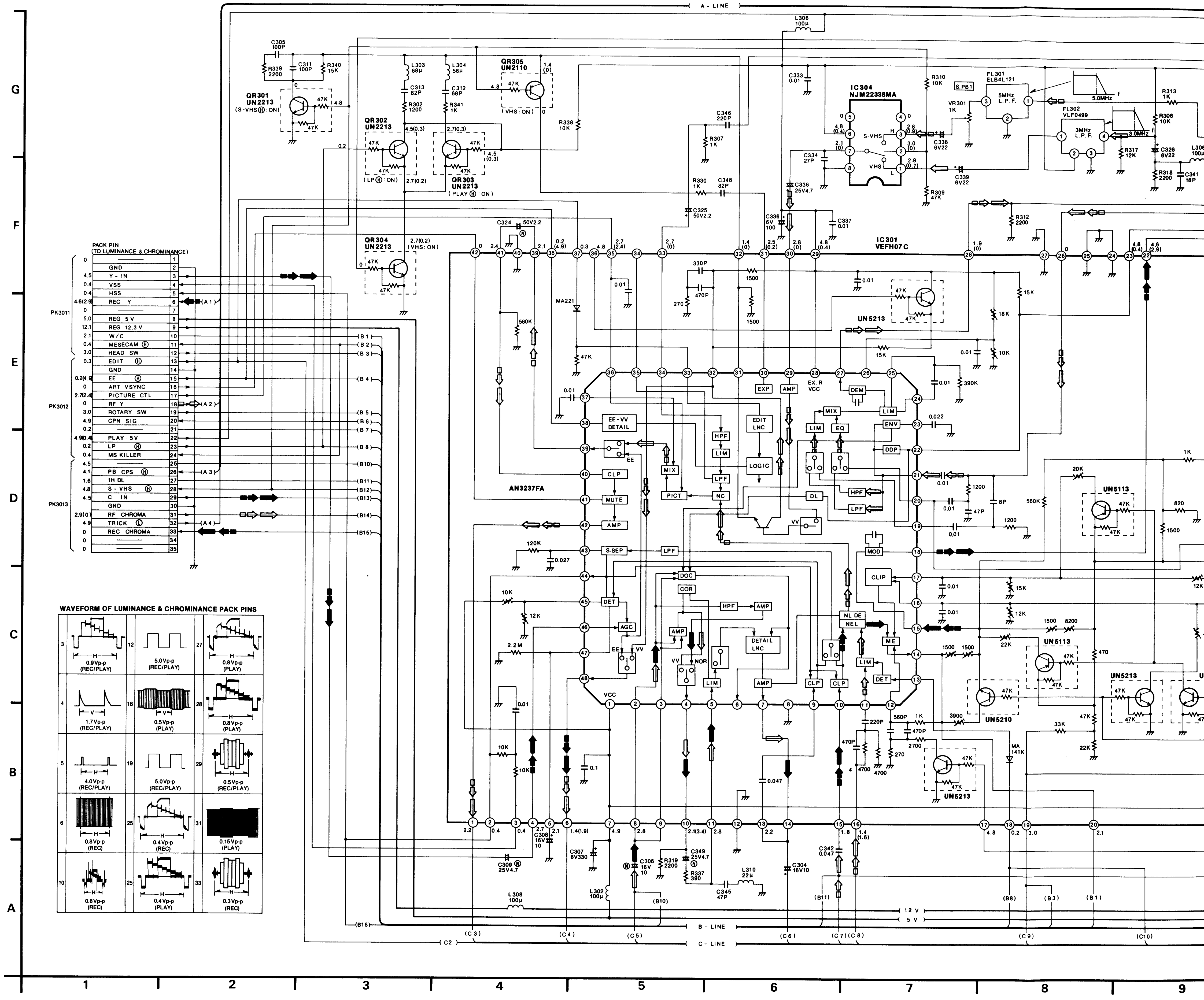
IC801 (VCR0284)
(S-VHS: SP MODE)



PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	H 0.1Vp-p (REC/P.B)	18	0.2Vp-p (REC/P.B)
3	H 0.7Vp-p (REC/P.B)	21	H 0.2Vp-p (REC/P.B)
5	H 0.14Vp-p (REC/P.B)	31	H 0.62Vp-p (REC/P.B)
8	V 5.0Vp-p (REC/P.B)	32	0.8Vp-p (REC/P.B)
9	H 0.5Vp-p (REC) 0.8Vp-p (P.B)	34	0.6Vp-p (REC/P.B)
10	H 0.5Vp-p (REC/P.B)	36	0.25Vp-p (REC/P.B)
12	H 0.5Vp-p (REC/P.B)	38	H 5.0Vp-p (REC/P.B)
13	H 0.4Vp-p (REC) 0.1Vp-p (P.B)	39	H 4.0Vp-p (REC/P.B)
14	V 0.15Vp-p (P.B)	40	H 5.0Vp-p (REC/P.B)
15	H 0.4Vp-p (REC) 0.15Vp-p (P.B)	41	H 0.35Vp-p (P.B)
16	H 0.2Vp-p (REC) 0.1Vp-p (P.B)	42	H 1.0Vp-p (REC/P.B)
17	H 0.25Vp-p (REC) 0.18Vp-p (P.B)		

3-14. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE (VHS)

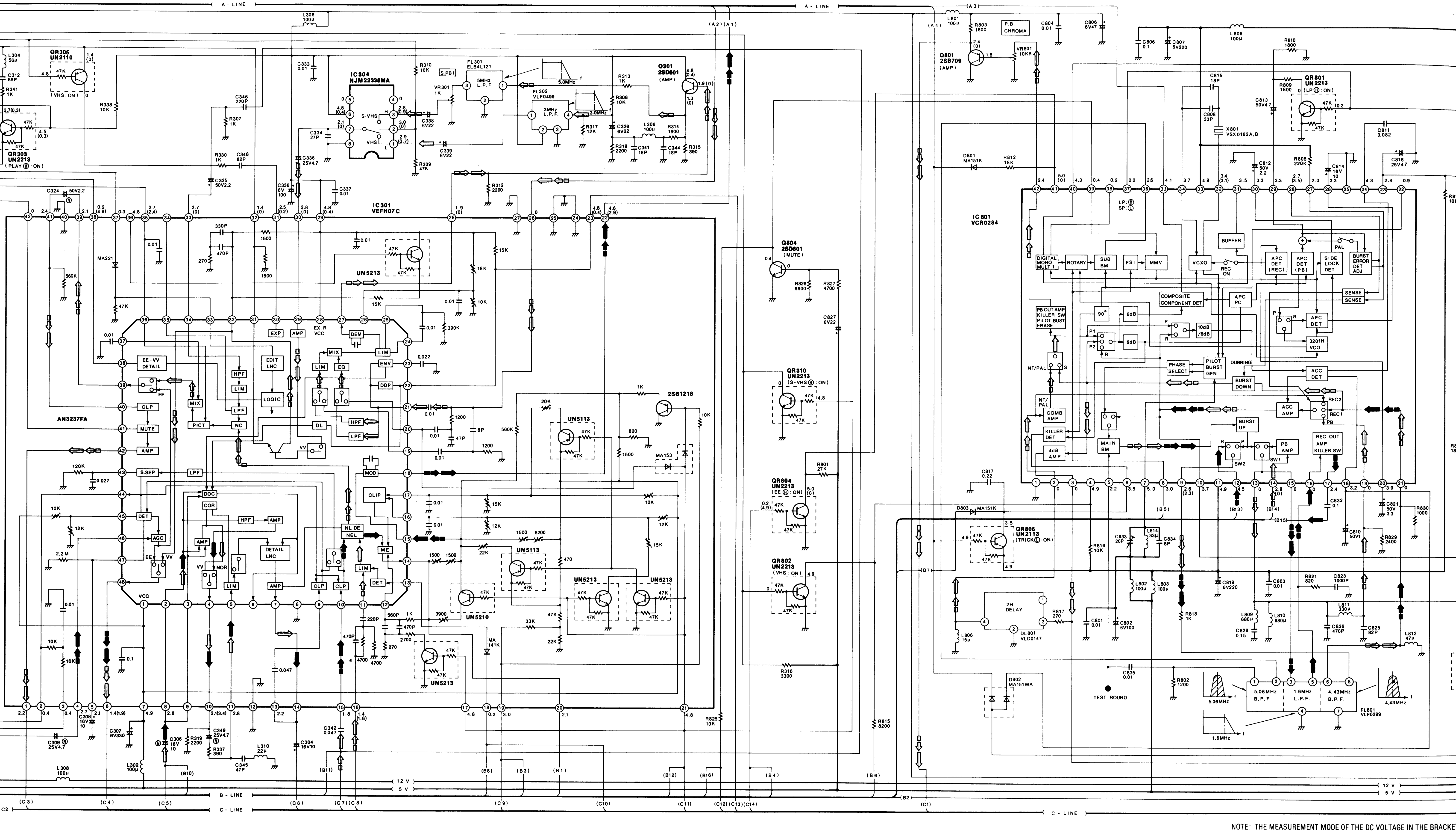

A - LINE
B - LINE
C - LINE
C2
12 V
5 V
PACK PIN
(TO LUMINANCE & CHROMINANCE)
PK3011
PK3012
PK3013
1 ——— 0
2 GND
3 Y - IN 4.5
4 VSS 0.4
5 HSS 0.4
6 REC Y 4.6(2.9) (A1)
7 ——— 0
8 REG 5V 5.0
9 REG 12.3V 12.1
10 W/C 2.1
11 MESECAM Ⓗ 0.4
12 HEAD SW 3.0
13 EDIT Ⓗ 0.3
14 GND
15 EE Ⓗ 0.2(4.9)
16 ART VSYNC 0
17 PICTURE CTL 2.7(2.4)
18 RF Y 0 (A2)
19 ROTARY SW 3.0
20 CPN SIG 4.9
21 ——— 0.2
22 PLAY 5V 4.9(0.4)
23 LP Ⓗ 0.2
24 MS KILLER 0.4
25 ——— 4.5
26 PB CPS Ⓗ 4.1 (A3)
27 1H DL 1.6
28 S - VHS Ⓗ 4.8
29 C IN 4.5
30 GND
31 RF CHROMA 2.9(0)
32 TRICK Ⓛ 4.9 (A4)
33 REC CHROMA 0
34 ——— 0
35 ——— 0
(B1) (B2) (B3) (B4) (B5) (B6) (B7) (B8) (B10) (B11) (B12) (B13) (B14) (B15) (B16)
(C3) (C4) (C5) (C6) (C7) (C8) (C9) (C10)
QR301 UN2213 (S-VHS Ⓗ : ON)
QR302 UN2213 (LP Ⓗ : ON)
QR303 UN2213 (PLAY Ⓗ : ON)
QR304 UN2213 (VHS : ON)
QR305 UN2110 (VHS : ON)
C305 100P
C311 100P
R339 2200
R340 15K
L303 68μ
L304 56μ
C313 82P
C312 68P
R302 1200
R341 1K
R338 10K
C346 220P
R307 1K
C333 0.01
L306 100μ
IC304 NJM2233BMA
S-VHS
VHS
R310 10K
S.PB1
VR301 1K
FL301 ELB4L121
5MHz L.P.F.
5.0MHz
FL302 VLF0499
3MHz L.P.F.
3.0MHz
R313 1K
R306 10K
R317 12K
C326 6V22
R318 2200
C341 18P
C338 6V22
C339 6V22
C334 27P
C336 25V4.7
R330 1K
C348 82P
C325 50V2.2
C336 6V 100
C337 0.01
R309 47K
R312 2200
C324 50V2.2
MA221
560K
330P
470P
1500
270
IC301 VEFH07C
AN3237FA
UN5213
UN5113
UN5210
MA 141K
EE-VV DETAIL
CLP
MUTE
AMP
S.SEP
DET
AGC
DOC
COR
HPF
LIM
LPF
MIX
PICT
NC
EDIT LNC
LOGIC
EXP
EX. R VCC
DEM
EQ
ENV
DDP
DL
VV
MOD
CLIP
NL DE
NEL
ME
DETAIL LNC
NOR
VCC
EE
120K
0.027
10K
12K
2.2M
0.01
0.1
0.047
220P
560P
470P
2700
4700
270
3900
1500
8200
20K
560K
820
33K
22K
1200
8P
47P
390K
0.022
15K
18K
C309 25V4.7
C308 16V 10
C307 6V330
C306 16V 10
R319 2200
C349 25V4.7
R337 390
C345 47P
L310 22μ
C304 16V10
C342 0.047
L308 100μ
L302 100μ
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

WAVEFORM OF LUMINANCE & CHROMINANCE PACK PINS

3	H 0.9Vp-p (REC/PLAY)	12	5.0Vp-p (REC/PLAY)	27	H 0.8Vp-p (PLAY)
4	V 1.7Vp-p (REC/PLAY)	18	V 0.5Vp-p (PLAY)	28	H 0.8Vp-p (PLAY)
5	H 4.0Vp-p (REC/PLAY)	19	5.0Vp-p (REC/PLAY)	29	H 0.5Vp-p (REC/PLAY)
6	H 0.8Vp-p (REC)	25	H 0.4Vp-p (REC)	31	0.15Vp-p (PLAY)
10	H 0.8Vp-p (REC)	25	H 0.4Vp-p (PLAY)	33	H 0.3Vp-p (REC)

CK SCHEMATIC DIAGRAM

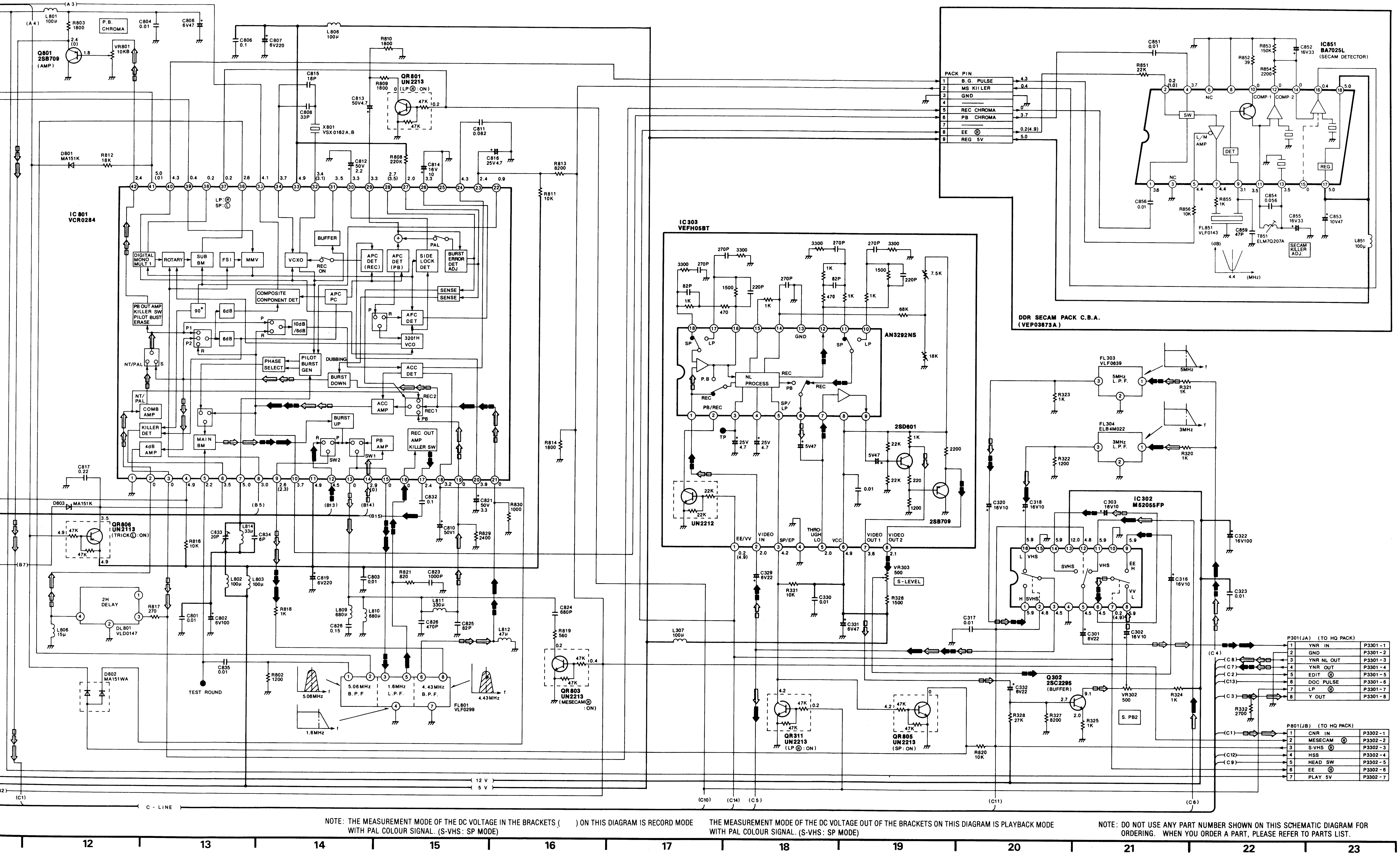
◀■ MAIN SIGNAL PATH IN REC MODE (VHS) ◀■■ MAIN SIGNAL PATH IN REC MODE (S-VHS) ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)



A - LINE
B - LINE
C - LINE
12 V
5 V
IC304 NJM2233BMA
IC301 VEFH07C
AN3237FA
IC801 VCR0284
Q301 2SD601 (AMP)
Q801 2SB709 (AMP)
Q804 2SD601 (MUTE)
QR305 UN2110
QR303 UN2213 (PLAY Ⓗ : ON)
QR310 UN2213 (S-VHS Ⓗ : ON)
QR804 UN2213 (EE Ⓗ : ON)
QR802 UN2213 (VHS : ON)
QR806 UN2113 (TRICK Ⓛ : ON)
QR801 UN2213 (LP Ⓗ : ON)
2SB1218
UN5213
UN5113
UN5210
FL301 ELB4L121 5MHz L.P.F.
FL302 VLF0499 3MHz L.P.F.
FL801 VLF0299
DL801 VLD0147 2H DELAY
X801 VSX0162A,B
VR301 1K
VR801 10KB
S.PB1
P.B. CHROMA
TEST ROUND
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
EE-VV DETAIL
CLP
MUTE
AMP
S.SEP
LPF
DET
AGC
DOC
COR
HPF
LIM
MIX
PICT
NC
LOGIC
EDIT LNC
EXP
DEM
ENV
DDP
EQ
DL
MOD
CLIP
NL DE
NEL
ME
DETAIL LNC
NOR
DIGITAL MONO MULT 1
ROTARY
SUB BM
FSI
MMV
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
SIDE LOCK DET
BURST ERROR DET ADJ
SENSE
COMPOSITE COMPONENT DET
APC PC
PB OUT AMP KILLER SW PILOT BUST ERASE
90°
6dB
10dB /6dB
AFC DET
320fH VCO
PHASE SELECT
PILOT BURST GEN
BURST DOWN
DUBBING
ACC DET
ACC AMP
COMB AMP
KILLER DET
4dB AMP
MAIN BM
BURST UP
PB AMP
REC OUT AMP KILLER SW
NT/PAL
LP : Ⓗ SP : Ⓛ

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKET WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

ODE (S-VHS) ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (VHS) ⇦▭ MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)


IC 801
VCR0284
IC303
VEFH05BT
AN3292NS
IC302
M52055FP
IC851
BA7025L
(SECAM DETECTOR)
DDR SECAM PACK C.B.A.
(VEP03673A)
PACK PIN
1 B.G. PULSE
2 MS KIILER
3 GND
4 ———
5 REC CHROMA
6 PB CHROMA
7 ———
8 EE Ⓗ
9 REG 5V
Q801 2SB709 (AMP)
QR801 UN2213 (LP Ⓗ : ON)
QR806 UN2113 (TRICK Ⓛ : ON)
QR803 UN2213 (MESECAM Ⓗ : ON)
QR311 UN2213 (LP Ⓗ : ON)
QR805 UN2213 (SP : ON)
Q302 2SC2295 (BUFFER)
2SD601
2SB709
UN2212
FL801 VLF0299
FL303 VLF0639 5MHz L.P.F.
FL304 ELB4M022 3MHz L.P.F.
FL851 VLF0143
T851 ELM7Q207A
DL801 VLD0147 2H DELAY
X801 VSX0162A,B
TEST ROUND
12 V
5 V
C - LINE
S-LEVEL
S. PB2
12
13
14
15
16
17
18
19
20
21
22
23

P301(JA) (TO HQ PACK)

1	YNR IN	P3301-1
2	GND	P3301-2
3	YNR NL OUT	P3301-3
4	YNR OUT	P3301-4
5	EDIT Ⓗ	P3301-5
6	DOC PULSE	P3301-6
7	LP Ⓗ	P3301-7
8	Y OUT	P3301-8

P801(JB) (TO HQ PACK)

1	CNR IN	P3302-1
2	MESECAM Ⓗ	P3302-2
3	S-VHS Ⓗ	P3302-3
4	HSS	P3302-4
5	HEAD SW	P3302-5
6	EE Ⓗ	P3302-6
7	PLAY 5V	P3302-7

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

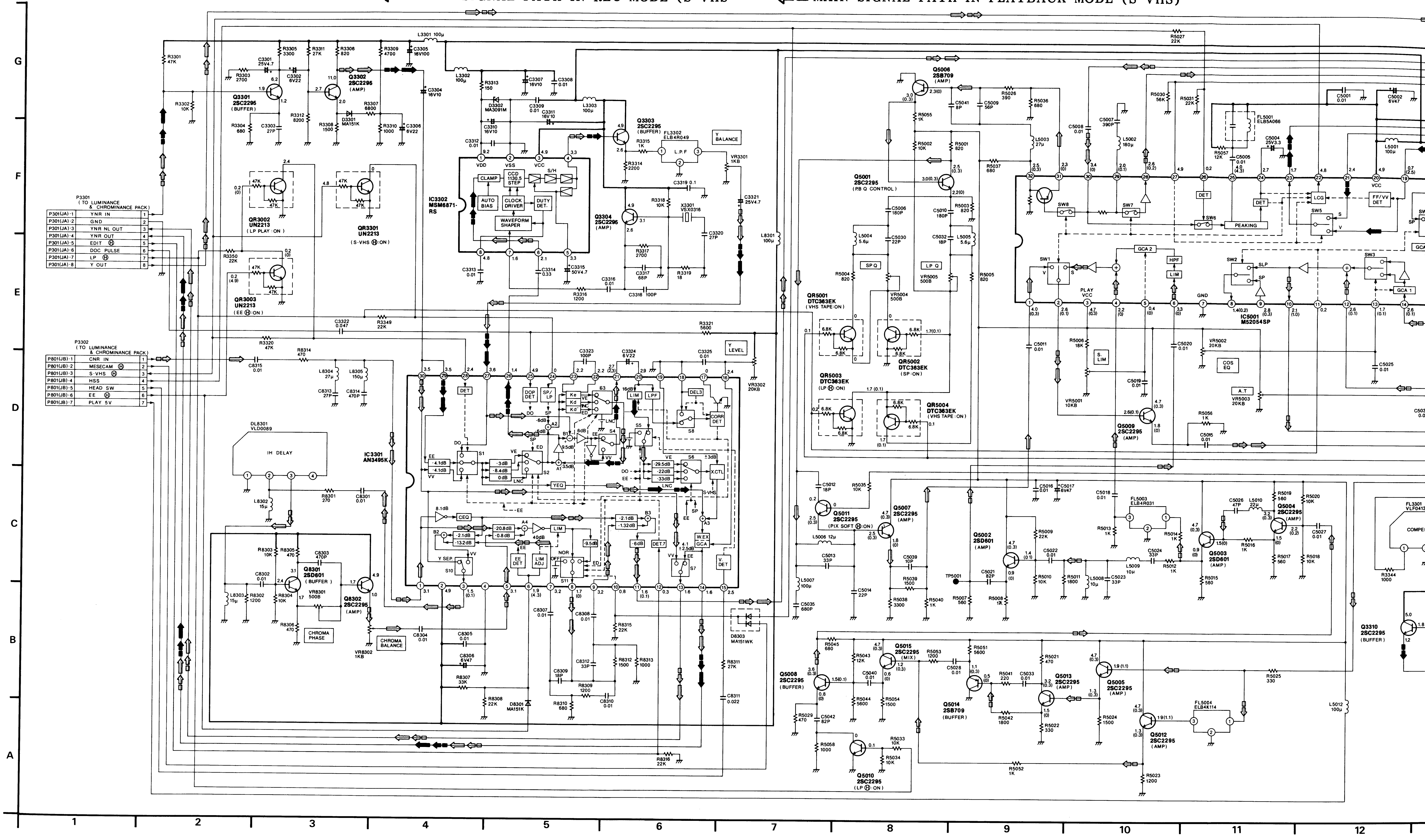
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
HQ PACK Section

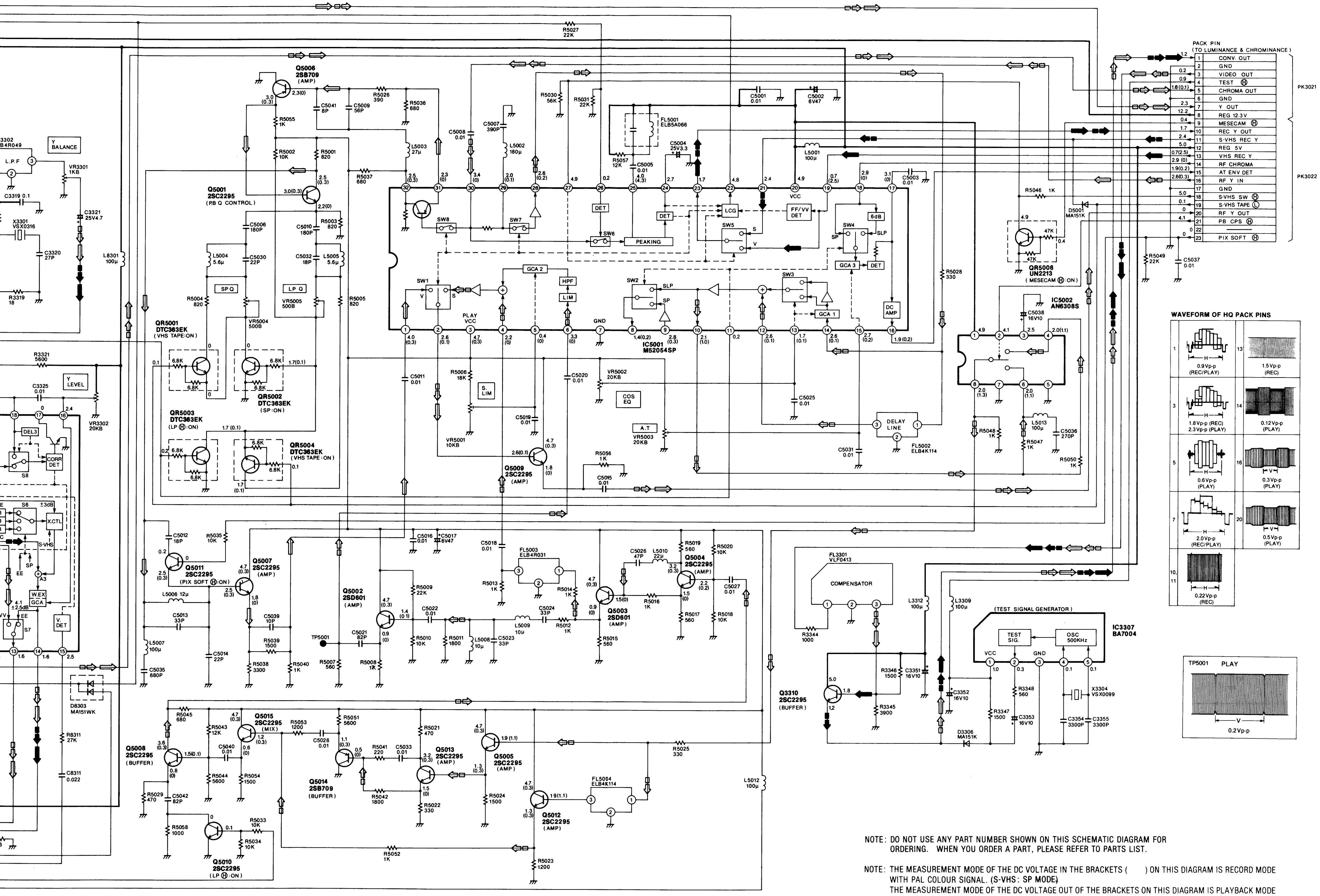
3-15. HQ PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE (VHS)
MAIN SIGNAL PATH IN REC MODE (S-VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)



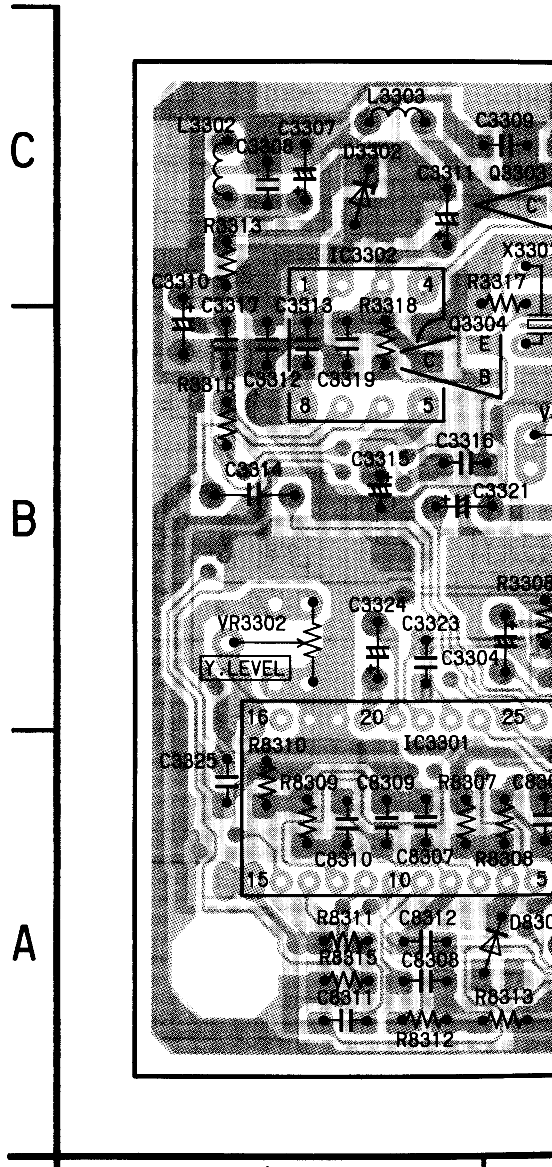
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
P3301
(TO LUMINANCE & CHROMINANCE PACK)
P301(JA)-1 YNR IN 1
P301(JA)-2 GND 2
P301(JA)-3 YNR NL OUT 3
P301(JA)-4 YNR OUT 4
P301(JA)-5 EDIT Ⓗ 5
P301(JA)-6 DOC PULSE 6
P301(JA)-7 LP Ⓗ 7
P301(JA)-8 Y OUT 8
P3302
(TO LUMINANCE & CHROMINANCE PACK)
P801(JB)-1 CNR IN 1
P801(JB)-2 MESECAM Ⓗ 2
P801(JB)-3 S-VHS Ⓗ 3
P801(JB)-4 HSS 4
P801(JB)-5 HEAD SW 5
P801(JB)-6 EE Ⓗ 6
P801(JB)-7 PLAY 5V 7
Q3301 2SC2295 (BUFFER)
Q3302 2SC2295 (AMP)
Q3303 2SC2295 (BUFFER)
Q3304 2SC2295 (AMP)
QR3002 UN2213 (LP PLAY : ON)
QR3301 UN2213 (S-VHS Ⓗ:ON)
QR3003 UN2213 (EE Ⓗ:ON)
IC3302 MSM6871-RS
CLAMP
CCD 1130.5 STEP
S/H
AUTO BIAS
CLOCK DRIVER
DUTY DET.
WAVEFORM SHAPER
VDD
VSS
VCC
FL3302 ELB4R049
L.P.F
Y BALANCE
VR3301 1KB
X3301 VSX0316
L3301 100μ
L3302 100μ
L3303 100μ
D3302 MA3091M
D3301 MA151K
Y LEVEL
VR3302 20KB
IC3301 AN3495K
DL8301 VLD0089
IH DELAY
DET
DOP DET
SP/LP
DEL3
CORR DET
LIM
LPF
S1
S2
S4
S5
S6
S7
S8
S10
S11
CEQ
YEQ
XCTL
W.EX
GCA
V. DET
EE DET
LIM ADJ
NOR
Y SEP.
LNC
Q8301 2SD601 (BUFFER)
Q8302 2SC2295 (AMP)
VR8301 500B
VR8302 1KB
CHROMA PHASE
CHROMA BALANCE
D8303 MA151WK
D8301 MA151K
Q5006 2SB709 (AMP)
Q5001 2SC2295 (PB Q CONTROL)
SPQ
LPQ
VR5004 500B
VR5005 500B
QR5001 DTC363EK (VHS TAPE:ON)
QR5002 DTC363EK (SP:ON)
QR5003 DTC363EK (LP Ⓗ:ON)
QR5004 DTC363EK (VHS TAPE:ON)
FL5001 ELB5A066
IC5001 M52054SP
SW1
SW2
SW3
SW5
SW6
SW7
SW8
GCA 2
GCA 1
HPF
LIM
LCG
FF/VV DET
PEAKING
PLAY VCC
GND
SLP
S. LIM
COS EQ
A.T
VR5001 10KB
VR5002 20KB
VR5003 20KB
Q5009 2SC2295 (AMP)
Q5011 2SC2295 (PIX SOFT Ⓗ:ON)
Q5007 2SC2295 (AMP)
Q5002 2SD601 (AMP)
TP5001
FL5003 ELB4R031
Q5003 2SD601 (AMP)
Q5004 2SC2295 (AMP)
Q5008 2SC2295 (BUFFER)
Q5015 2SC2295 (MIX)
Q5014 2SB709 (BUFFER)
Q5013 2SC2295 (AMP)
Q5005 2SC2295 (AMP)
Q5012 2SC2295 (AMP)
Q5010 2SC2295 (LP Ⓗ:ON)
FL5004 ELB4K114
FL3301 VLF0413
Q3310 2SC2295 (BUFFER)
COMPE

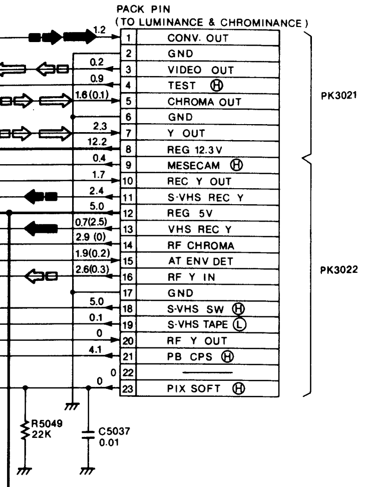
(VHS) MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
(S-VHS) MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)


PACK PIN (TO LUMINANCE & CHROMINANCE)
1 CONV. OUT
2 GND
3 VIDEO OUT
4 TEST Ⓗ
5 CHROMA OUT
6 GND
7 Y OUT
8 REG 12.3V
9 MESECAM Ⓗ
10 REC Y OUT
11 S-VHS REC Y
12 REG 5V
13 VHS REC Y
14 RF CHROMA
15 AT ENV DET
16 RF Y IN
17 GND
18 S-VHS SW Ⓗ
19 S-VHS TAPE Ⓛ
20 RF Y OUT
21 PB CPS Ⓗ
22
23 PIX SOFT Ⓗ
PK3021
PK3022
IC5001 M52054SP
IC5002 AN6308S
IC3307 BA7004
TEST SIGNAL GENERATOR
TEST SIG.
OSC 500KHz
COMPENSATOR
FL3301 VLF0413
Q5001 2SC2295 (PB Q CONTROL)
Q5002 2SD601 (AMP)
Q5003 2SD601 (AMP)
Q5004 2SC2295 (AMP)
Q5005 2SC2295 (AMP)
Q5006 2SB709 (AMP)
Q5007 2SC2295 (AMP)
Q5008 2SC2295 (BUFFER)
Q5009 2SC2295 (AMP)
Q5010 2SC2295 (LP Ⓗ:ON)
Q5011 2SC2295 (PIX SOFT Ⓗ:ON)
Q5012 2SC2295 (AMP)
Q5013 2SC2295 (AMP)
Q5014 2SB709 (BUFFER)
Q5015 2SC2295 (MIX)
Q3310 2SC2295 (BUFFER)
QR5001 DTC363EK (VHS TAPE:ON)
QR5002 DTC363EK (SP:ON)
QR5003 DTC363EK (LP Ⓗ:ON)
QR5004 DTC363EK (VHS TAPE:ON)
QR5006 UN2213 (MESECAM Ⓗ:ON)
D5001 MA151K
D3306 MA151K
D8303 MA151WK
FL5001 ELB5A066
FL5002 ELB4K114
FL5003 ELB4R031
FL5004 ELB4K114
DELAY LINE
PEAKING
LCG
FF/VV DET
GCA 1
GCA 2
GCA 3
HPF
LIM
DC AMP
SW1 SW2 SW3 SW4 SW5 SW6 SW7 SW8
PLAY VCC
GND
S. LIM
COS EQ
A.T
SPQ
LPQ
Y BALANCE
Y LEVEL
L.P.F
TP5001
WAVEFORM OF HQ PACK PINS
1: 0.9Vp-p (REC/PLAY)
13: 1.5Vp-p (REC)
3: 1.8Vp-p (REC) 2.3Vp-p (PLAY)
14: 0.12Vp-p (PLAY)
5: 0.6Vp-p (PLAY)
16: 0.3Vp-p (PLAY)
7: 2.0Vp-p (REC/PLAY)
20: 0.5Vp-p (PLAY)
10, 11: 0.22Vp-p (REC)
TP5001 PLAY 0.2Vp-p

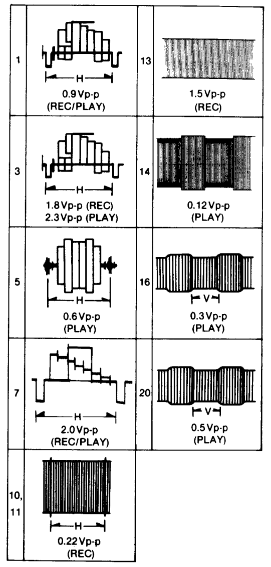
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

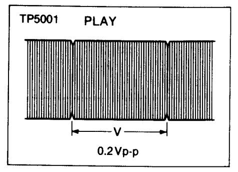
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)


C
B
A
L3302
L3303
C3307
C3308
C3309
D3302
C3311
Q3303
R3313
X3301
IC3302
C3310
C3317
C3318
R3318
R3317
Q3304
R3316
C8312
C3319
C3314
C3315
C3316
C3321
VR3302
C3324
C3323
C3304
Y LEVEL
R8306
IC3301
R8310
C3325
R8309
C8309
R8307
C8310
C8307
R8308
R8311
C8312
D830
R8315
C8308
C8311
R8313
R8312


PACK PIN
(TO LUMINANCE & CHROMINANCE)
1.2
1 CONV. OUT
2 GND
0.2
3 VIDEO OUT
0.9
4 TEST Ⓗ
1.6(0.1)
5 CHROMA OUT
6 GND
2.3
7 Y OUT
12.2
8 REG 12.3V
0.4
9 MESECAM Ⓗ
1.7
10 REC Y OUT
2.4
11 S-VHS REC Y
5.0
12 REG 5V
0.7(2.5)
13 VHS REC Y
2.9 (0)
14 RF CHROMA
1.9(0.2)
15 AT ENV DET
2.6(0.3)
16 RF Y IN
17 GND
5.0
18 S-VHS SW Ⓗ
0.1
19 S-VHS TAPE Ⓛ
0
20 RF Y OUT
4.1
21 PB CPS Ⓗ
0
22
0
23 PIX SOFT Ⓗ
PK3021
PK3022
R5049
22K
C5037
0.01

WAVEFORM OF HQ PACK PINS





RAM FOR
IST.

) ON THIS DIAGRAM IS RECORD MODE

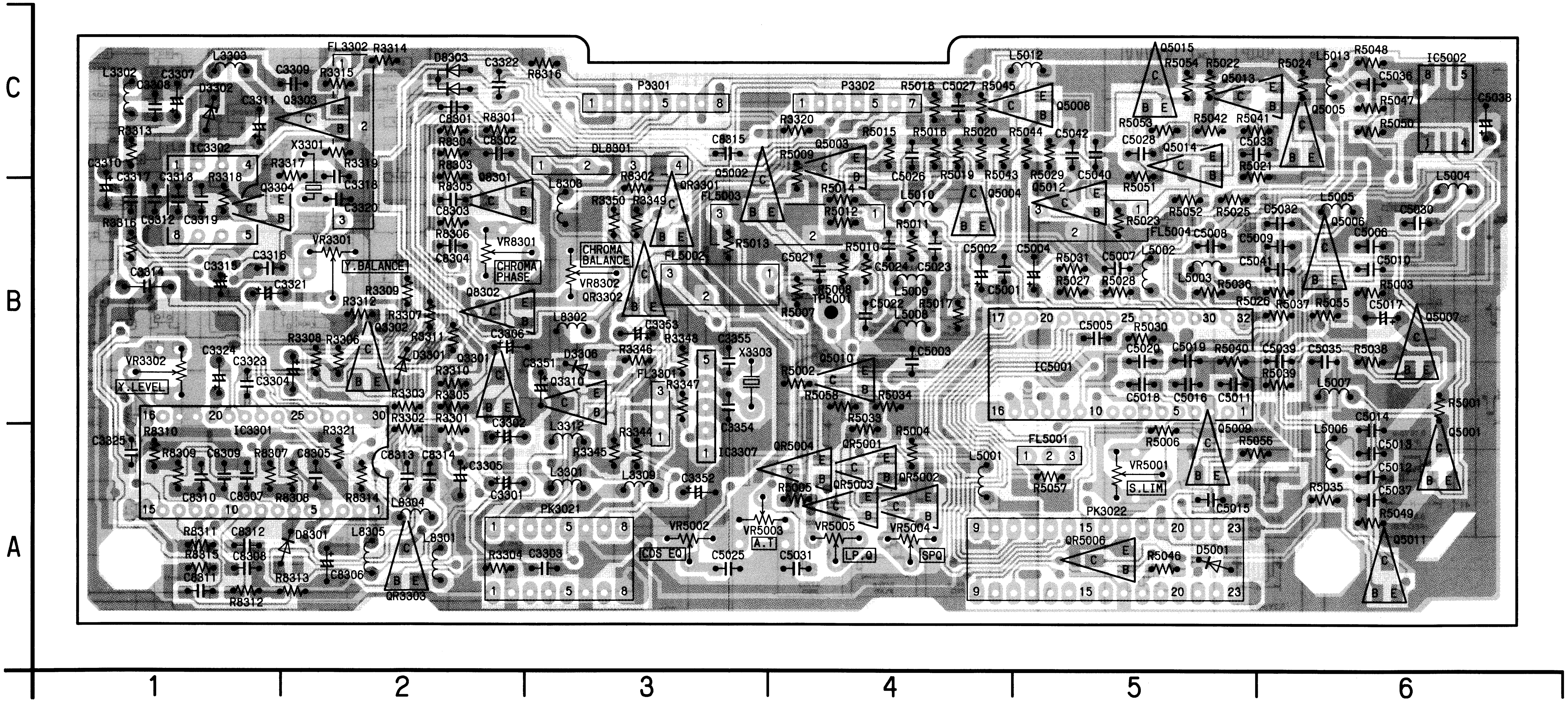
S ON THIS DIAGRAM IS PLAYBACK MODE

15 16

3-16. HQ PACK C.B.A. (VEP03635A)

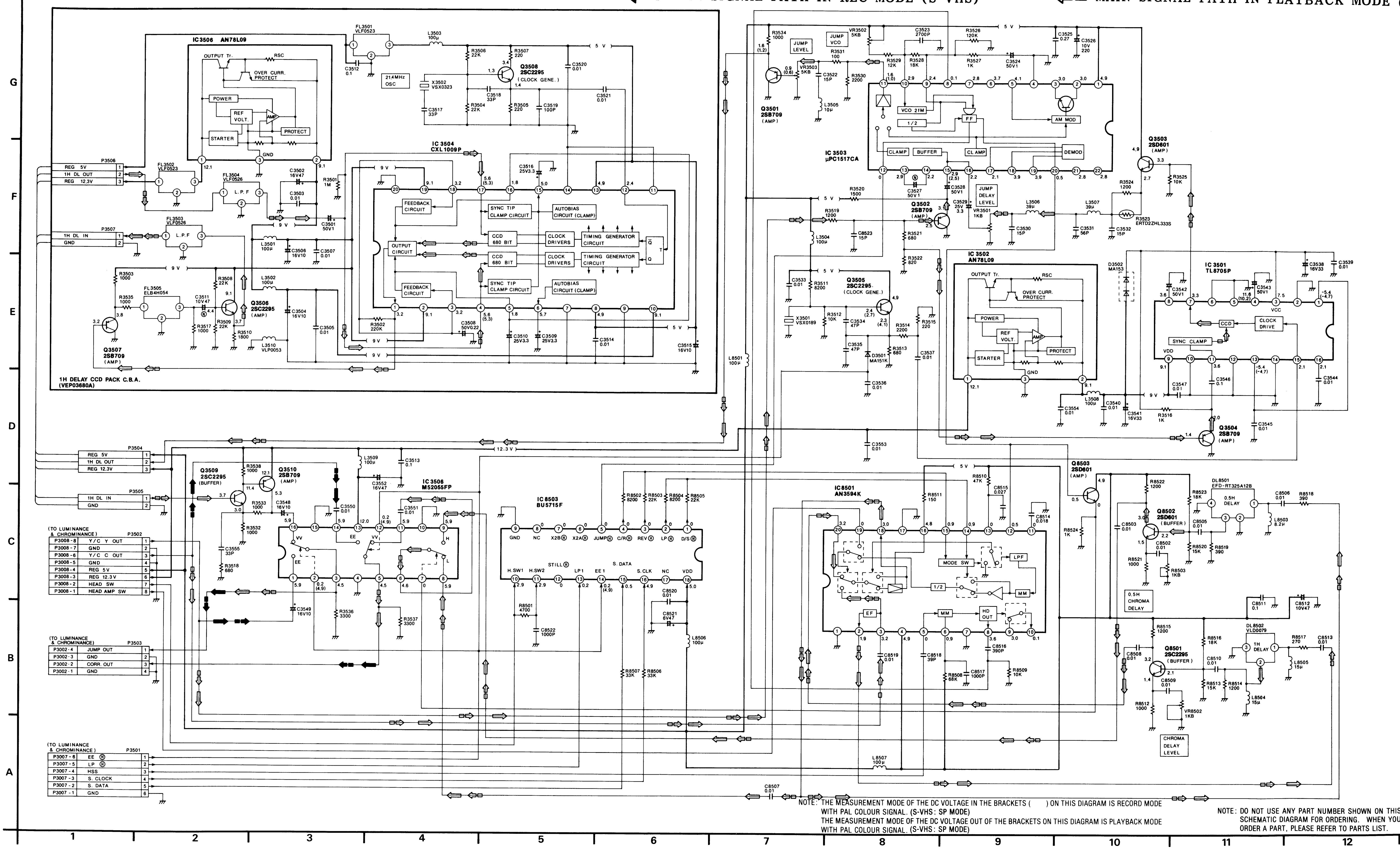
HQ PACK C.B.A.					
Transistor		Q8301	B-2	**Adjustment**	
Q3301	B-2	Q8302	B-2	VR3301	B-2
Q3302	B-2	**Transistor & Resistor**		VR3302	B-1
Q3303	C-2	QR3301	B-3	VR5001	A-5
Q3304	B-1	QR3302	B-3	VR5002	A-3
Q3310	B-3	QR3303	A-2	VR5003	A-3
Q5001	A-6	QR5001	A-4	VR5004	A-4
Q5002	C-3	QR5002	A-4	VR5005	A-4
Q5003	C-4	QR5003	A-4	VR8301	B-2
Q5004	B-4	QR5004	A-4	VR8302	B-3
Q5005	C-6	QR5006	A-5	**Connector**	
Q5006	B-6	**Integrated Circuit**		P3301	C-3
Q5007	B-6	IC3301	A-1	P3302	C-4
Q5008	C-5	IC3302	C-1	PK3021	A-3
Q5009	A-5	IC3307	A-3	PK3022	A-5
Q5010	B-4	IC5001	B-5		
Q5011	A-6	IC5002	C-6		
Q5012	B-5	**Test Point**			
Q5013	C-5	TP5001	B-4		
Q5014	C-5				
Q5015	C-5				

ADDRESS INFORMATION


C
B
A
1
2
3
4
5
6
FL3302
R3314
D8303
C3322
R8316
P3301
P3302
R5018
C5027
R5045
L5012
Q5015
R5054
R5022
Q5013
R5024
L5013
R5048
IC5002
C5036
C5038
R5047
R5050
Q5005
Q5008
L3302
C3307
L3303
C3308
D3302
C3309
R3315
C3311
Q3303
R3313
IC3302
X3301
R3317
R3319
C3310
C3317
C3313
R3318
Q3304
C3318
C3320
R3316
C3312
C3319
C3316
C3314
C3315
C3321
VR3301
Y.BALANCE
R3312
R3309
R3307
Q3302
R3311
R3308
R3306
D3301
Q3301
R3310
R3305
R3303
R3302
R3301
VR3302
Y.LEVEL
C3324
C3323
C3304
C3325
IC3301
R8310
R8309
C8309
R8307
C8305
R3321
C8310
C8307
R8308
R8314
R8311
C8312
R8315
C8308
C8311
R8312
D8301
R8313
C8306
L8305
L8304
L8301
QR3303
C8313
C8314
C3305
C3301
C3302
C8301
R8301
R8304
C8302
R8303
Q8301
R8305
C8303
R8306
C8304
VR8301
CHROMA PHASE
Q8302
CHROMA BALANCE
VR8302
QR3302
L8303
DL8301
R3302
R3350
R3349
QR3301
FL5003
FL5002
L8302
C3353
R3348
C3306
C3351
D3306
Q3310
R3346
FL3301
R3347
C3355
X3303
C3354
IC3307
L3312
R3344
R3345
L3301
L3309
C3352
PK3021
R3304
C3303
VR5002
CDS EQ
C5025
VR5003
A.T
C5031
VR5005
LP.Q
VR5004
SPQ
R3320
C8315
Q5003
R5009
R5015
R5016
R5020
R5044
C5042
C5002
R5014
C5026
R5019
R5043
R5029
C5040
Q5012
Q5004
L5010
R5012
R5011
R5013
R5010
C5021
TP5001
R5008
R5007
C5024
C5023
L5009
C5022
L5008
R5017
C5004
C5001
R5002
Q5010
R5058
R5034
R5033
R5004
QR5004
QR5001
QR5003
QR5002
R5005
C5003
R5053
C5028
Q5014
R5042
R5041
C5033
R5021
R5051
R5052
R5025
C5032
L5005
Q5006
R5023
FL5004
C5008
C5009
L5002
C5007
R5031
R5027
R5028
L5003
R5036
C5041
R5026
R5037
R5055
C5030
L5004
C5006
C5010
R5003
C5017
Q5007
IC5001
C5005
R5030
C5020
C5019
R5040
C5039
C5035
R5038
R5039
L5007
C5018
C5016
C5011
R5001
Q5001
Q5009
R5006
R5056
L5006
C5014
C5013
C5012
L5001
FL5001
VR5001
S.LIM
R5057
R5035
C5037
C5015
R5049
Q5011
PK3022
QR5006
R5046
D5001

3-17. SUB LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE (VHS)
MAIN SIGNAL PATH IN REC MODE (S-VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (
MAIN SIGNAL PATH IN PLAYBACK MODE (

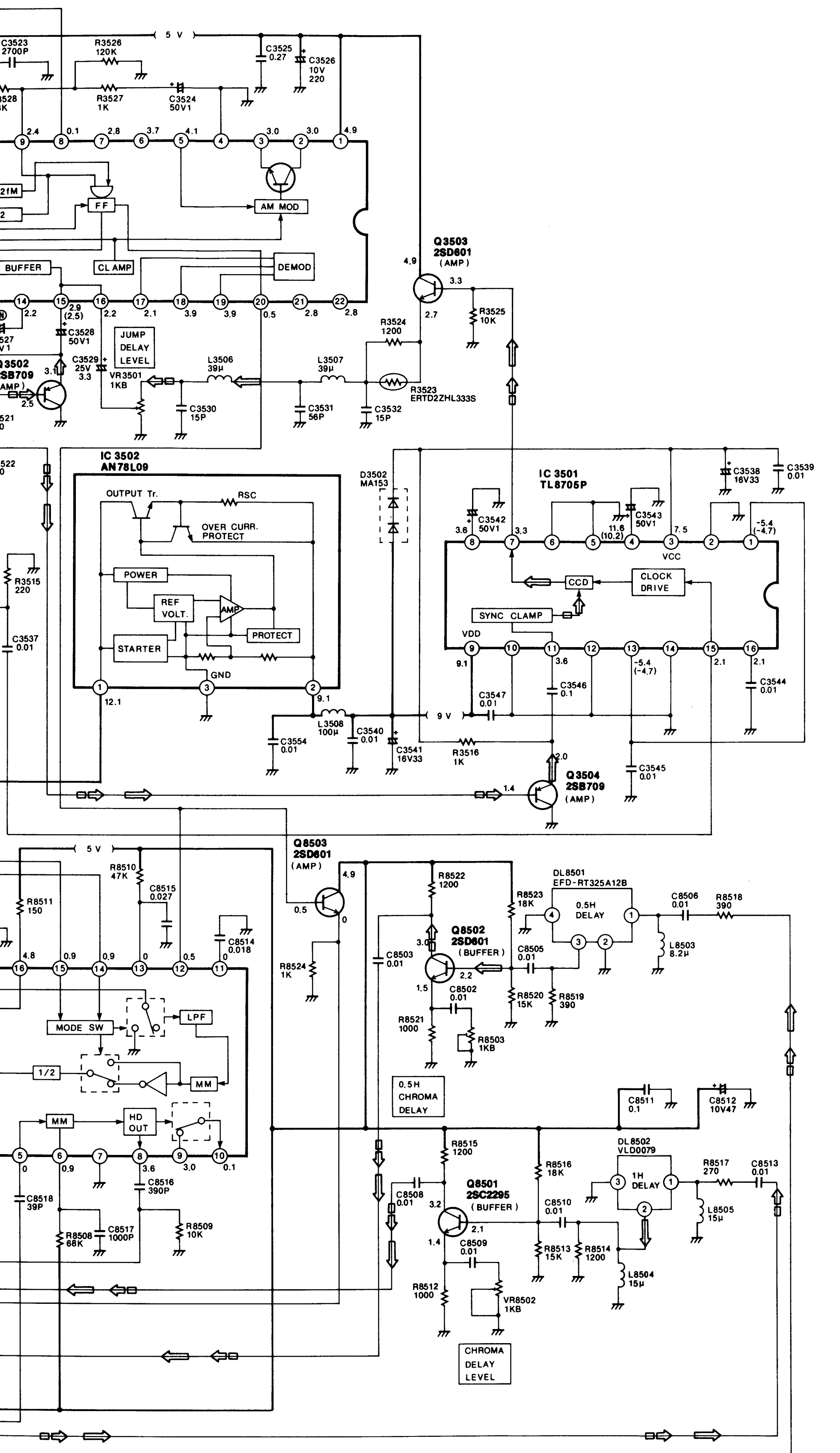

IC 3506 AN78L09
OUTPUT Tr.
RSC
OVER CURR. PROTECT
POWER
REF VOLT.
AMP
PROTECT
STARTER
GND
FL3501 VLF0523
L3503 100µ
C3512 0.1
21.4MHz OSC
X3502 VSX0323
C3517 33P
C3518 33P
R3504 22K
R3505 220
C3519 100P
R3506 22K
R3507 220
Q3508 2SC2295 (CLOCK GENE.)
C3520 0.01
C3521 0.01
5 V
P3506
REG 5V
1H DL OUT
REG 12.3V
FL3502 VLF0523
FL3504 VLF0526
L.P.F
C3502 16V47
C3503 0.01
R3501 1M
C3501 50V1
FL3503 VLF0526
P3507
1H DL IN
GND
L3501 100µ
C3506 16V10
C3507 0.01
9 V
IC 3504 CXL1009P
FEEDBACK CIRCUIT
SYNC TIP CLAMP CIRCUIT
AUTOBIAS CIRCUIT (CLAMP)
OUTPUT CIRCUIT
CCD 680 BIT
CLOCK DRIVERS
TIMING GENERATOR CIRCUIT
C3516 25V3.3
R3503 1000
R3535 1000
FL3505 ELB4H054
C3511 10V47
R3508 22K
Q3506 2SC2295 (AMP)
L3502 100µ
C3504 16V10
C3505 0.01
R3509 22K
R3517 1000
R3510 1800
L3510 VLP0053
R3502 220K
C3508 50V0.22
C3510 25V3.3
C3509 25V3.3
C3514 0.01
C3515 16V10
Q3507 2SB709 (AMP)
1H DELAY CCD PACK C.B.A. (VEP03680A)
R3534 1000
JUMP LEVEL
JUMP VCO
VR3502 5KB
C3523 2700P
R3526 120K
C3525 0.27
C3526 10V 220
R3531 100
VR3503 5KB
C3522 15P
R3530 2200
R3529 12K
R3528 18K
R3527 1K
C3524 50V1
Q3501 2SB709 (AMP)
L3505 10µ
VCO 21M
1/2
FF
AM MOD
CLAMP
BUFFER
CL AMP
DEMOD
IC 3503 µPC1517CA
R3520 1500
R3519 1200
C3527 50V1
C3528 50V1
Q3502 2SB709 (AMP)
C3529 25V 3.3
JUMP DELAY LEVEL
VR3501 1KB
L3506 39µ
L3507 39µ
C3530 15P
C3531 56P
C3532 15P
R3524 1200
R3523 ERTD2ZHL333S
Q3503 2SD601 (AMP)
R3525 10K
L3504 100µ
C8523 15P
R3521 680
R3522 820
C3533 0.01
R3511 8200
Q3505 2SC2295 (CLOCK GENE.)
X3501 VSX0189
R3512 10K
C3534 47P
R3514 2200
R3515 220
C3535 47P
D3501 MA151K
R3513 680
C3537 0.01
C3536 0.01
L8501 100µ
IC 3502 AN78L09
D3502 MA153
IC 3501 TL8705P
C3542 50V1
C3543 50V1
C3538 16V33
C3539 0.01
CCD
CLOCK DRIVE
SYNC CLAMP
VDD
VCC
C3547 0.01
C3546 0.1
C3544 0.01
L3508 100µ
C3554 0.01
C3540 0.01
C3541 16V33
R3516 1K
Q3504 2SB709 (AMP)
C3545 0.01
C3553 0.01
P3504
REG 5V
1H DL OUT
REG 12.3V
P3505
1H DL IN
GND
Q3509 2SC2295 (BUFFER)
R3538 1000
Q3510 2SB709 (AMP)
L3509 100µ
C3513 0.1
C3552 16V47
IC 3506 M52055FP
R3533 1000
C3548 16V10
C3550 0.01
C3551 0.01
R3532 1000
C3555 33P
R3518 680
C3549 16V10
R3536 3300
R3537 3300
(TO LUMINANCE & CHROMINANCE) P3502
P3008-8 Y/C Y OUT
P3008-7 GND
P3008-6 Y/C C OUT
P3008-5 GND
P3008-4 REG 5V
P3008-3 REG 12.3V
P3008-2 HEAD SW
P3008-1 HEAD AMP SW
(TO LUMINANCE & CHROMINANCE) P3503
P3002-4 JUMP OUT
P3002-3 GND
P3002-2 CORR. OUT
P3002-1 GND
(TO LUMINANCE & CHROMINANCE) P3501
P3007-6 EE Ⓗ
P3007-5 LP Ⓗ
P3007-4 HSS
P3007-3 S. CLOCK
P3007-2 S. DATA
P3007-1 GND
IC 8503 BU5715F
GND NC X2BⒽ X2AⒽ JUMPⒽ C/RⒽ REVⒽ LPⒽ D/SⒽ
H.SW1 H.SW2 STILLⒽ LP1 EE1 S. DATA S.CLK NC VDD
R8502 8200
R8503 22K
R8504 8200
R8505 22K
R8501 4700
C8522 1000P
C8520 0.01
C8521 6V47
L8506 100µ
R8507 33K
R8506 33K
IC 8501 AN3594K
R8510 47K
C8515 0.027
R8511 150
C8514 0.018
MODE SW
LPF
1/2
MM
EF
HD OUT
C8519 0.01
C8518 39P
R8508 68K
C8517 1000P
C8516 390P
R8509 10K
L8507 100µ
C8507 0.01
Q8503 2SD601 (AMP)
R8524 1K
R8522 1200
Q8502 2SD601 (BUFFER)
C8503 0.01
C8505 0.01
C8502 0.01
R8521 1000
VR8503 1KB
R8520 15K
R8519 390
R8523 18K
DL8501 EFD-RT325A12B
0.5H DELAY
C8506 0.01
R8518 390
L8503 8.2µ
0.5H CHROMA DELAY
C8511 0.1
C8512 10V47
R8515 1200
R8516 18K
DL8502 VLD0079
1H DELAY
R8517 270
C8513 0.01
C8508 0.01
Q8501 2SC2295 (BUFFER)
C8510 0.01
C8509 0.01
R8513 15K
R8514 1200
L8505 15µ
L8504 15µ
R8512 1000
VR8502 1KB
CHROMA DELAY LEVEL
12.3 V
A B C D E F G
1 2 3 4 5 6 7 8 9 10 11 12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

(VHS)
(S-VHS)

⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

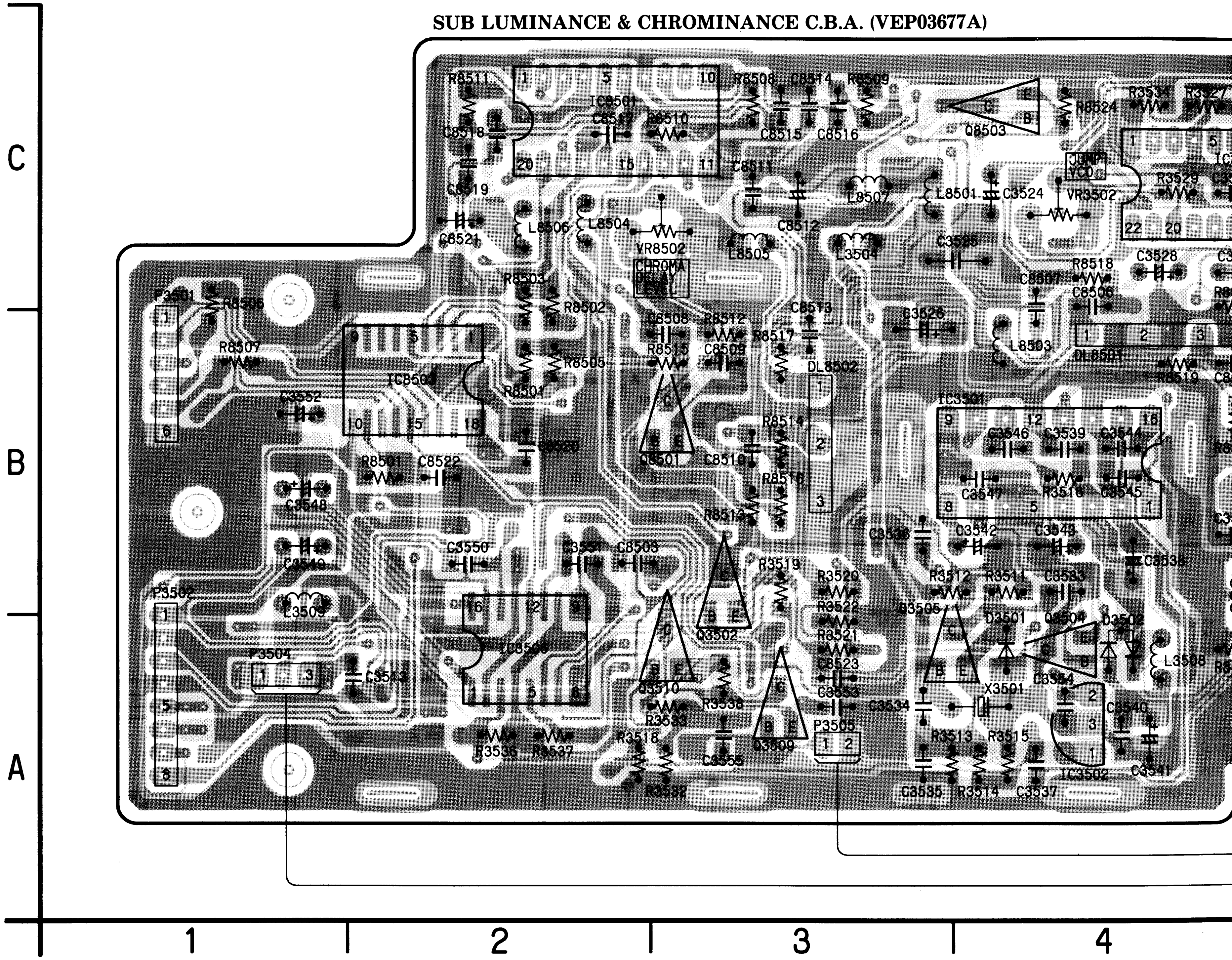

IC 3502
AN78L09
IC 3501
TL8705P
Q3503
2SD601
(AMP)
Q3502
2SB709
Q3504
2SB709
(AMP)
Q8503
2SD601
(AMP)
Q8502
2SD601
(BUFFER)
Q8501
2SC2295
(BUFFER)
DL8501
EFD-RT325A12B
0.5H DELAY
DL8502
VLD0079
1H DELAY
CCD
CLOCK DRIVE
SYNC CLAMP
OUTPUT Tr.
OVER CURR. PROTECT
POWER
REF VOLT.
STARTER
PROTECT
RSC
GND
VDD
VCC
BUFFER
CLAMP
DEMOD
AM MOD
FF
JUMP DELAY LEVEL
MODE SW
LPF
MM
1/2
HD OUT
0.5H CHROMA DELAY
CHROMA DELAY LEVEL
5 V
9 V

F THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE
S-VHS : SP MODE)
F THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
S-VHS : SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

9
10
11
12

3-18. SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)

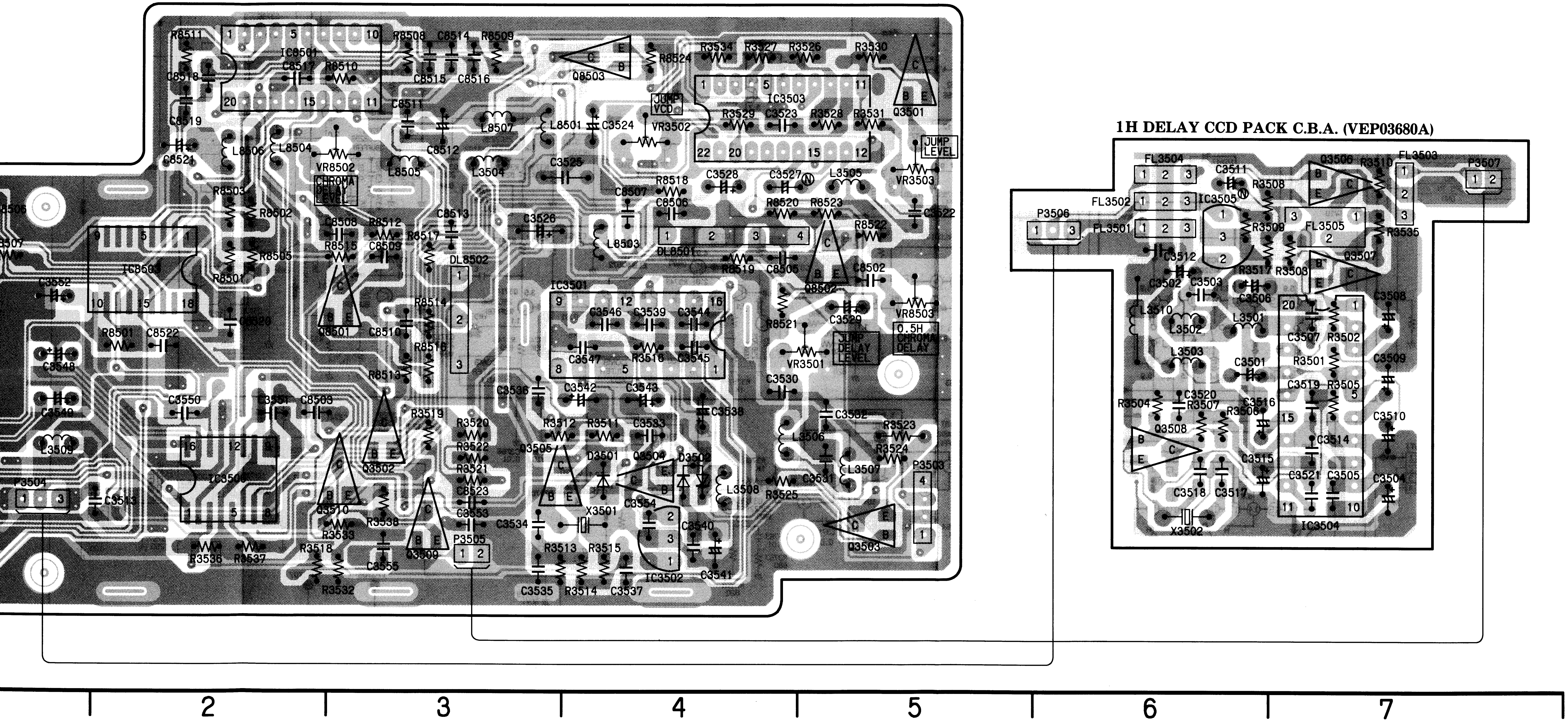

SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)

A
B
C
1
2
3
4
IC8501
IC8502
IC3501
IC3502
IC3503
Q8501
Q8503
Q3502
Q3504
Q3505
Q3509
Q3510
P3501
P3502
P3504
P3505
DL8501
DL8502
VR8502
CHROMA DELAY LEVEL
VR3502
JUMP VCD
X3501
D3501
D3502

SUB LUMINANCE & CHROMINANCE C.B.A.	
Transistor	
Q3501	C-5
Q3502	A-3
Q3503	A-5
Q3504	A-4
Q3505	B-3
Q3506	C-7
Q3507	B-7
Q3508	B-6
Q3509	A-3
Q3510	A-3
Q8501	B-3
Q8502	B-5
Q8503	C-4
Integrated Circuit	
IC3501	B-4
IC3502	A-4
IC3503	C-4
IC3504	A-7
IC3505	C-6
IC3506	A-2
IC8501	C-2
IC8503	B-2
Adjustment	
VR3501	B-5
VR3502	C-4
VR3503	C-5
VR8502	C-2
VR8503	B-5
Connector	
P3501	C-1
P3502	B-1
P3503	A-5
P3504	A-1
P3505	A-3
P3506	B-6
P3507	C-7

ADDRESS INFORMATION

SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)



1H DELAY CCD PACK C.B.A. (VEP03680A)

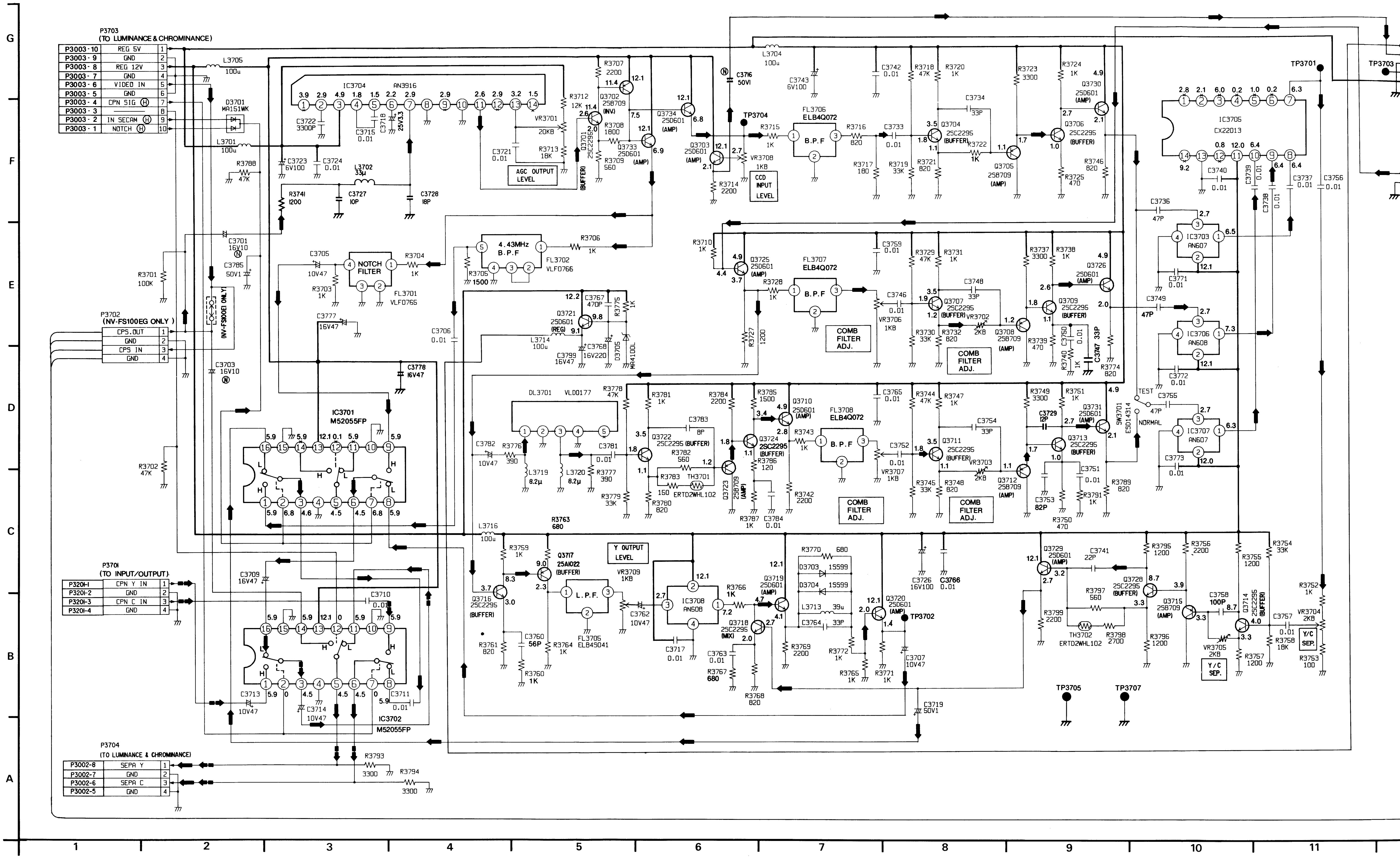
IC8501
IC8503
IC3501
IC3502
IC3503
IC3506
Q8501
Q8502
Q8503
Q3501
Q3502
Q3503
Q3504
Q3505
Q3509
Q3510
VR8502
VR8503
VR3501
VR3502
VR3503
CHROMA DELAY LEVEL
JUMP VCO
JUMP LEVEL
JUMP DELAY LEVEL
0.5H CHROMA DELAY
DL8501
DL8502
X3501
D3501
D3502
P3503
P3504
P3505
P3506
P3507
FL3501
FL3502
FL3503
FL3504
FL3505
IC3504
IC3505
Q3506
Q3507
Q3508
X3502
2
3
4
5
6
7

Next Page:
LUMINANCE & CHROMINANCE
SEPARATION Section

3-19. LUMINANCE & CHROMINANCE SEPARATION SCHEMATIC DIAGRAM

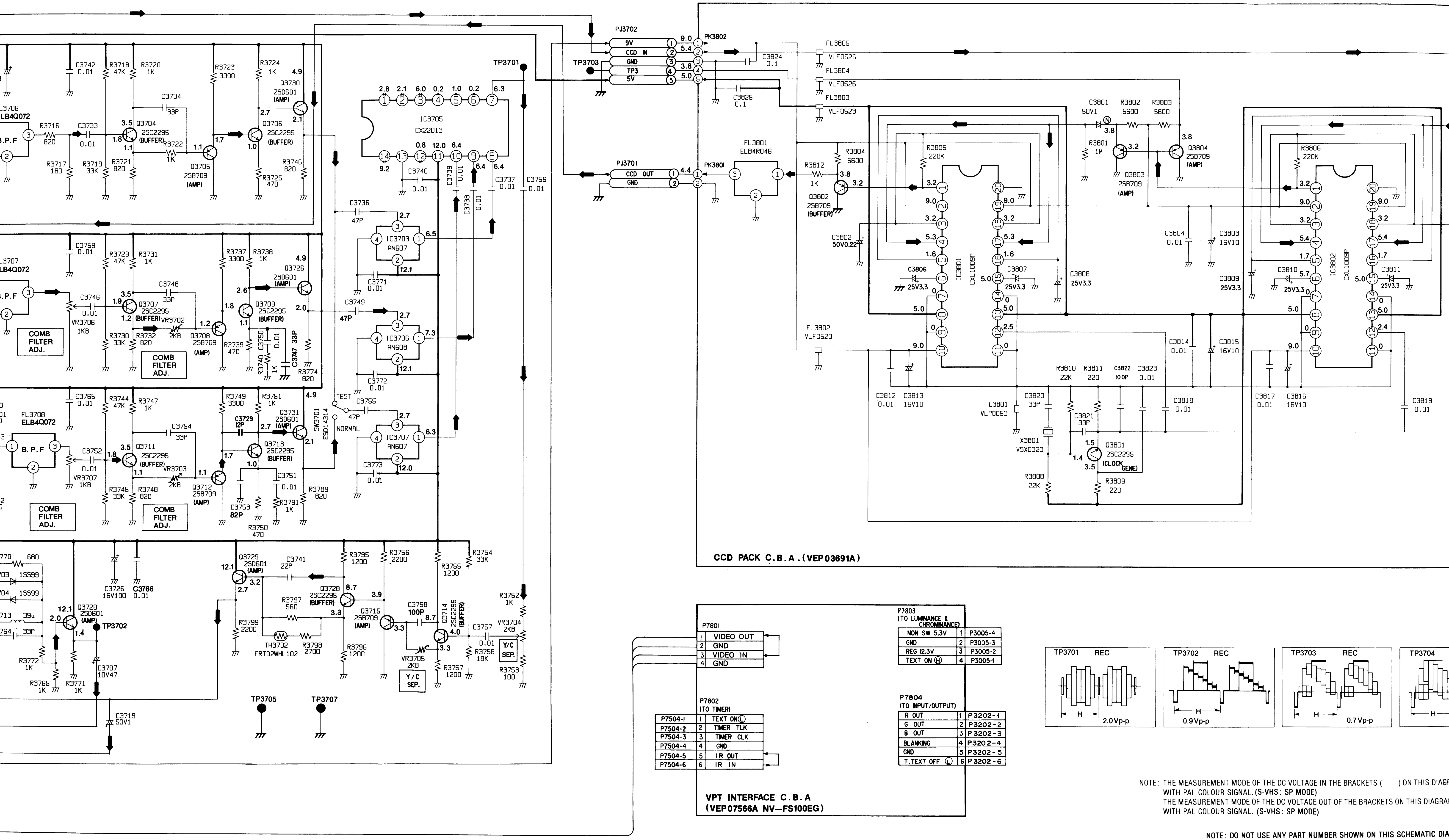
MAIN SIGNAL PATH IN REC MODE (VHS)

MAIN SIGNAL PATH IN



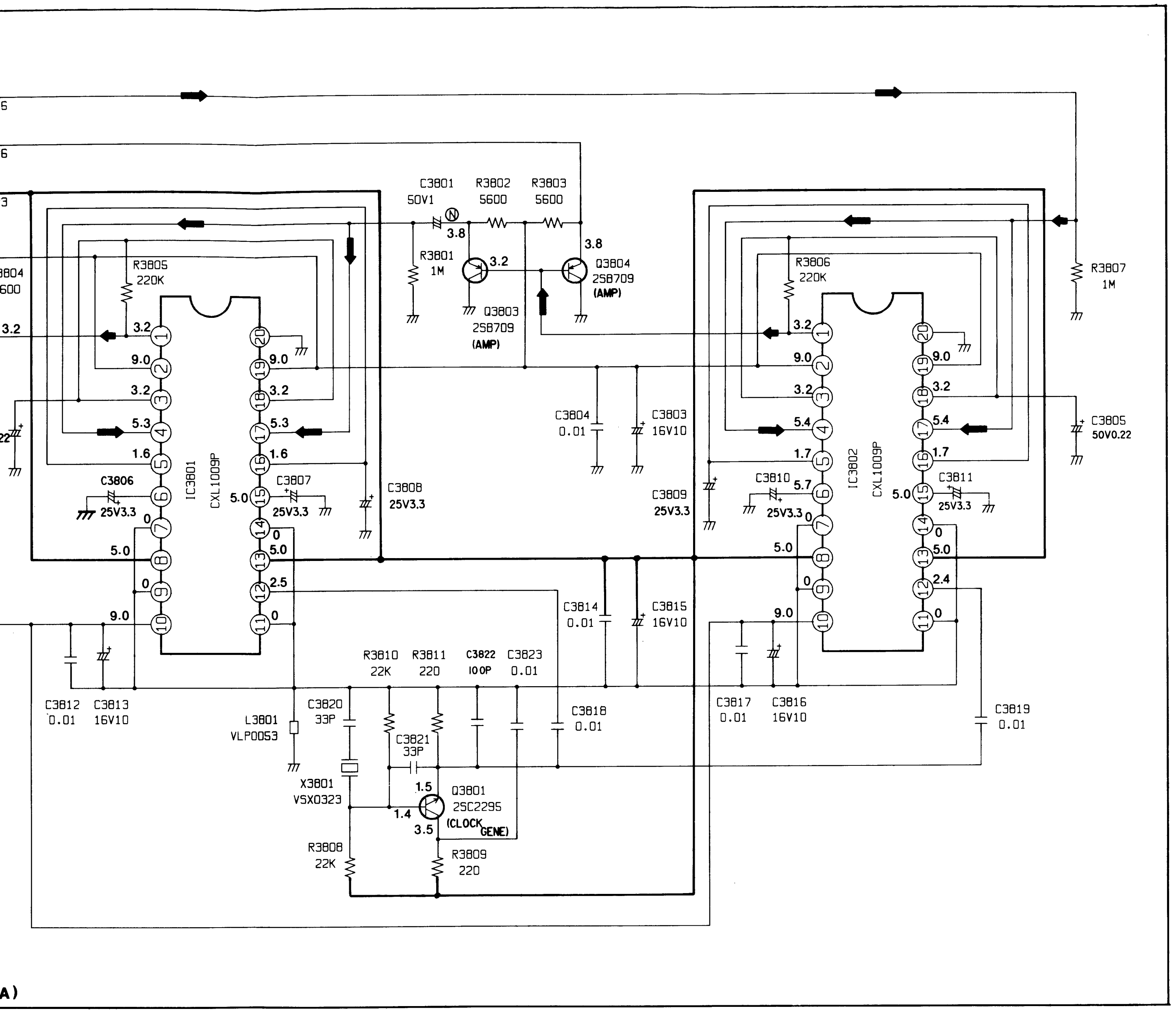
P3703 (TO LUMINANCE & CHROMINANCE)
P3003-10 REG 5V 1
P3003-9 GND 2
P3003-8 REG 12V 3
P3003-7 GND 4
P3003-6 VIDEO IN 5
P3003-5 GND 6
P3003-4 CPN SIG (H) 7
P3003-3 8
P3003-2 IN SECAM (H) 9
P3003-1 NOTCH (H) 10
P3702 (NV-FS100EG ONLY)
CPS.OUT 1
GND 2
CPS IN 3
GND 4
P3701 (TO INPUT/OUTPUT)
P3201-1 CPN Y IN 1
P3201-2 GND 2
P3201-3 CPN C IN 3
P3201-4 GND 4
P3704 (TO LUMINANCE & CHROMINANCE)
P3002-8 SEPA Y 1
P3002-7 GND 2
P3002-6 SEPA C 3
P3002-5 GND 4
IC3704 AN3916
AGC OUTPUT LEVEL
CCD INPUT LEVEL
IC3705 CX22013
4.43MHz B.P.F
FL3702 VLF0766
NOTCH FILTER
FL3701 VLF0765
FL3706 ELB4Q072
FL3707 ELB4Q072
FL3708 ELB4Q072
B.P.F
COMB FILTER ADJ.
IC3703 AN607
IC3706 AN608
IC3707 AN607
SW3701 ESD14314
TEST
NORMAL
IC3701 M52055FP
IC3702 M52055FP
DL3701 VLD0177
Q3721 2SD601 (REG)
Q3705 2SB709 (AMP)
Q3704 2SC2295 (BUFFER)
Q3706 2SC2295 (BUFFER)
Q3730 2SD601 (AMP)
Q3702 2SB709 (INV)
Q3701 2SC2295 (BUFFER)
Q3733 2SD601 (AMP)
Q3734 2SD601 (AMP)
Q3703 2SD601 (AMP)
Q3725 2SD601 (AMP)
Q3707 2SC2295 (BUFFER)
Q3708 2SB709 (AMP)
Q3709 2SC2295 (BUFFER)
Q3726 2SD601 (AMP)
Q3722 2SC2295 (BUFFER)
Q3723 2SB709 (AMP)
Q3724 2SC2295 (BUFFER)
Q3710 2SD601 (AMP)
Q3711 2SC2295 (BUFFER)
Q3712 2SB709 (AMP)
Q3713 2SC2295 (BUFFER)
Q3731 2SD601 (AMP)
Q3716 2SC2295 (BUFFER)
Q3717 2SA1022 (BUFFER)
Y OUTPUT LEVEL
L.P.F.
FL3705 ELB45041
IC3708 AN608
Q3719 2SD601 (AMP)
Q3718 2SC2295 (MIX)
Q3720 2SD601 (AMP)
D3703 1SS99
D3704 1SS99
TH3701 ERTD2WHL102
TH3702 ERTD2WHL102
Q3729 2SD601 (AMP)
Q3728 2SC2295 (BUFFER)
Q3715 2SB709 (AMP)
Q3714 2SC2295 (BUFFER)
VR3705 2KB
Y/C SEP.
VR3704 2KB
TP3701
TP3702
TP3703
TP3704
TP3705
TP3707
D3701 MA151WK
D3705 MA4100L
(NV-FS100EG ONLY)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

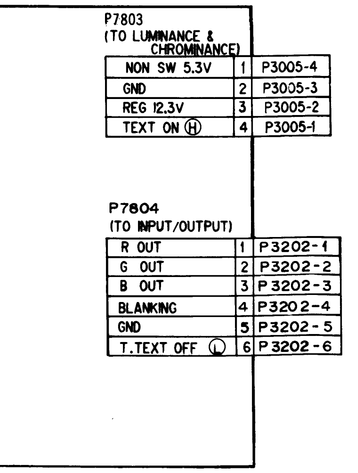
SIGNAL PATH IN REC MODE (VHS)   ◀■ MAIN SIGNAL PATH IN REC MODE (S-VHS)


PJ3702
9V
CCD IN
GND
TP3
5V
PK3802
TP3701
TP3703
PJ3701
CCD OUT
GND
PK3801
IC3705 CX22013
IC3703 AN607
IC3706 AN608
IC3707 AN607
SW3701 ESD14314
TEST
NORMAL
COMB FILTER ADJ.
B.P.F
FL3706 ELB4Q072
FL3707 ELB4Q072
FL3708 ELB4Q072
Q3704 2SC2295 (BUFFER)
Q3705 2SB709 (AMP)
Q3706 2SC2295 (BUFFER)
Q3730 2SD601 (AMP)
Q3707 2SC2295 (BUFFER)
Q3708 2SB709 (AMP)
Q3709 2SC2295 (BUFFER)
Q3726 2SD601 (AMP)
Q3711 2SC2295 (BUFFER)
Q3712 2SB709 (AMP)
Q3713 2SC2295 (BUFFER)
Q3731 2SD601 (AMP)
Q3720 2SD601 (AMP)
Q3729 2SD601 (AMP)
Q3728 2SC2295 (BUFFER)
Q3715 2SB709 (AMP)
Q3714 2SC2295 (BUFFER)
TP3702
TP3705
TP3707
Y/C SEP.
TH3702 ERTD2WHL102
FL3805 VLF0526
FL3804 VLF0526
FL3803 VLF0523
FL3801 ELB4R046
FL3802 VLF0523
Q3802 2SB709 (BUFFER)
Q3803 2SB709 (AMP)
Q3804 2SB709 (AMP)
IC3801 CXL1009P
IC3802 CXL1009P
L3801 VLP0053
X3801 VSX0323
Q3801 2SC2295 (CLOCK GENE)
CCD PACK C.B.A.(VEP03691A)
P7801
VIDEO OUT
GND
VIDEO IN
GND
P7803 (TO LUMINANCE & CHROMINANCE)
NON SW 5.3V | P3005-4
GND | P3005-3
REG 12.3V | P3005-2
TEXT ON (H) | P3005-1
P7802 (TO TIMER)
P7504-1 TEXT ON(L)
P7504-2 TIMER TLK
P7504-3 TIMER CLK
P7504-4 GND
P7504-5 IR OUT
P7504-6 IR IN
P7804 (TO INPUT/OUTPUT)
R OUT | P3202-1
G OUT | P3202-2
B OUT | P3202-3
BLANKING | P3202-4
GND | P3202-5
T.TEXT OFF (L) | P3202-6
VPT INTERFACE C.B.A (VEP07566A NV-FS100EG)
TP3701 REC 2.0Vp-p
TP3702 REC 0.9Vp-p
TP3703 REC 0.7Vp-p
TP3704
7 8 9 10 11 12 13 14 15 16 17 18

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGR
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRA
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIA
ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS


C3801
50V1
R3802
5600
R3803
5600
3.8
R3801
1M
3.2
Q3803
2SB709
(AMP)
Q3804
2SB709
(AMP)
R3805
220K
R3806
220K
R3807
1M
IC3801
CXL1009P
IC3802
CXL1009P
3.2
9.0
3.2
5.3
1.6
5.0
0
5.0
0
9.0
9.0
3.2
5.3
1.6
5.0
0
5.0
2.5
0
5.4
1.7
5.7
2.4
C3804
0.01
C3803
16V10
C3805
50V0.22
C3806
25V3.3
C3807
25V3.3
C3808
25V3.3
C3809
25V3.3
C3810
25V3.3
C3811
25V3.3
C3812
0.01
C3813
16V10
C3814
0.01
C3815
16V10
C3816
16V10
C3817
0.01
C3818
0.01
C3819
0.01
R3810
22K
R3811
220
C3822
100P
C3823
0.01
C3820
33P
C3821
33P
L3801
VLP0053
X3801
VSX0323
1.5
1.4
3.5
Q3801
2SC2295
(CLOCK GENE)
R3808
22K
R3809
220
A)



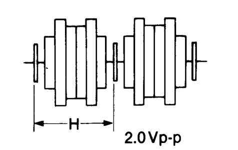
P7803
(TO LUMINANCE & CHROMINANCE)

NON SW 5.3V	1	P3005-4
GND	2	P3005-3
REG 12.3V	3	P3005-2
TEXT ON Ⓗ	4	P3005-1

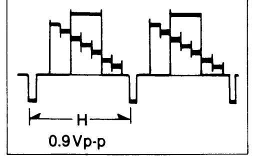
P7804
(TO INPUT/OUTPUT)

R OUT	1	P3202-1
G OUT	2	P3202-2
B OUT	3	P3202-3
BLANKING	4	P3202-4
GND	5	P3202-5
T.TEXT OFF Ⓛ	6	P3202-6

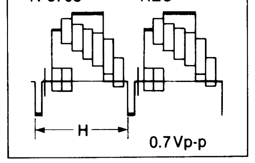
TP3701 REC



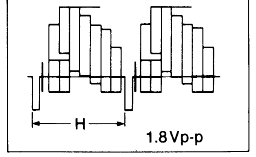
TP3702 REC



TP3703 REC



TP3704 REC



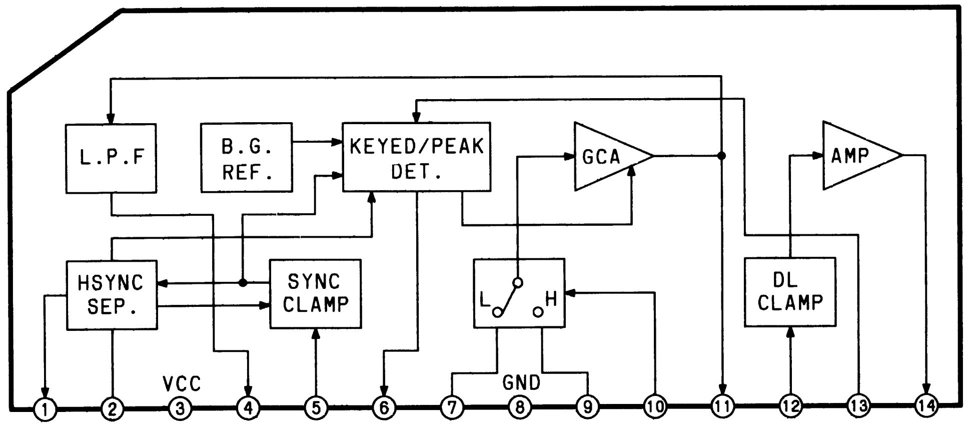
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

14 15 16 17 18 19

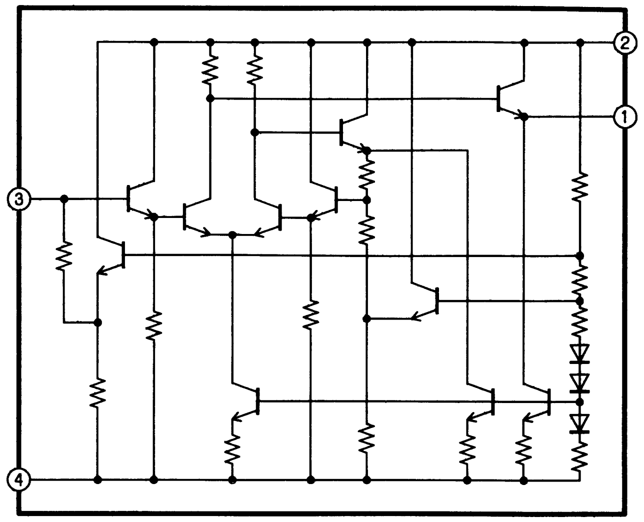
IC BLOCK

IC3704 (AN3916)


L.P.F
B.G. REF.
KEYED/PEAK DET.
GCA
AMP
HSYNC SEP.
SYNC CLAMP
L
H
DL CLAMP
VCC
GND
1
2
3
4
5
6
7
8
9
10
11
12
13
14

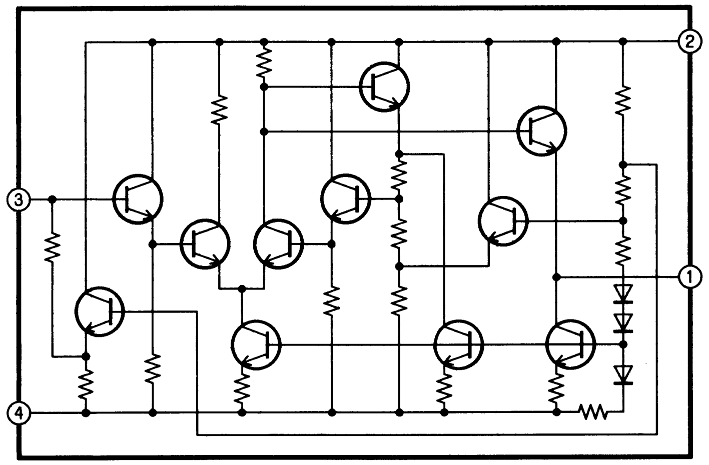
IC3703, IC3707 (AN607)

(WIDE BAND AMPLIFIER)

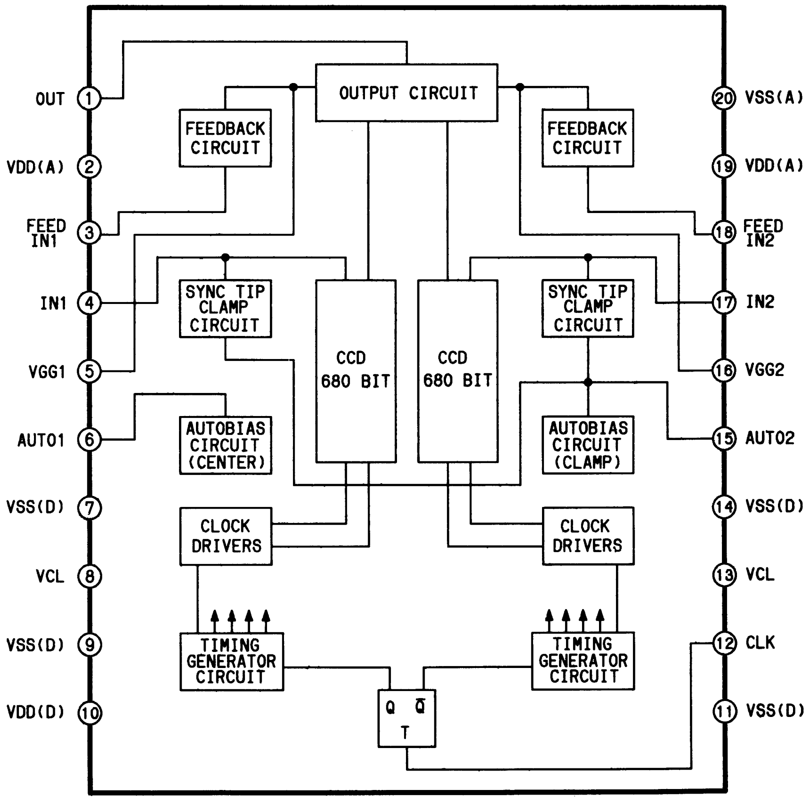


IC3706, IC3708 (AN608)

(WIDE BAND AMPLIFIER)

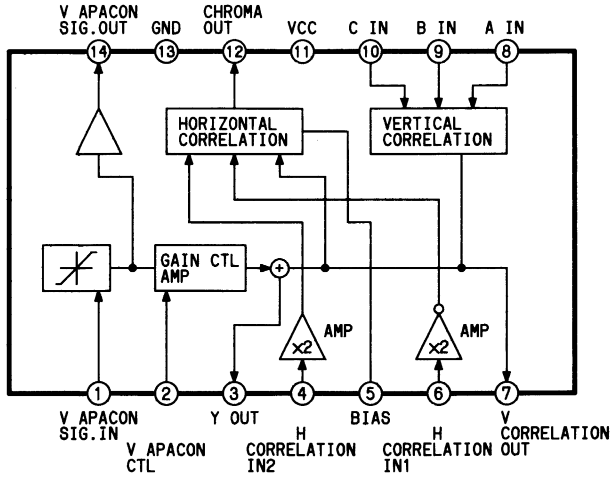


IC3801, IC3802 (CXL1009P)

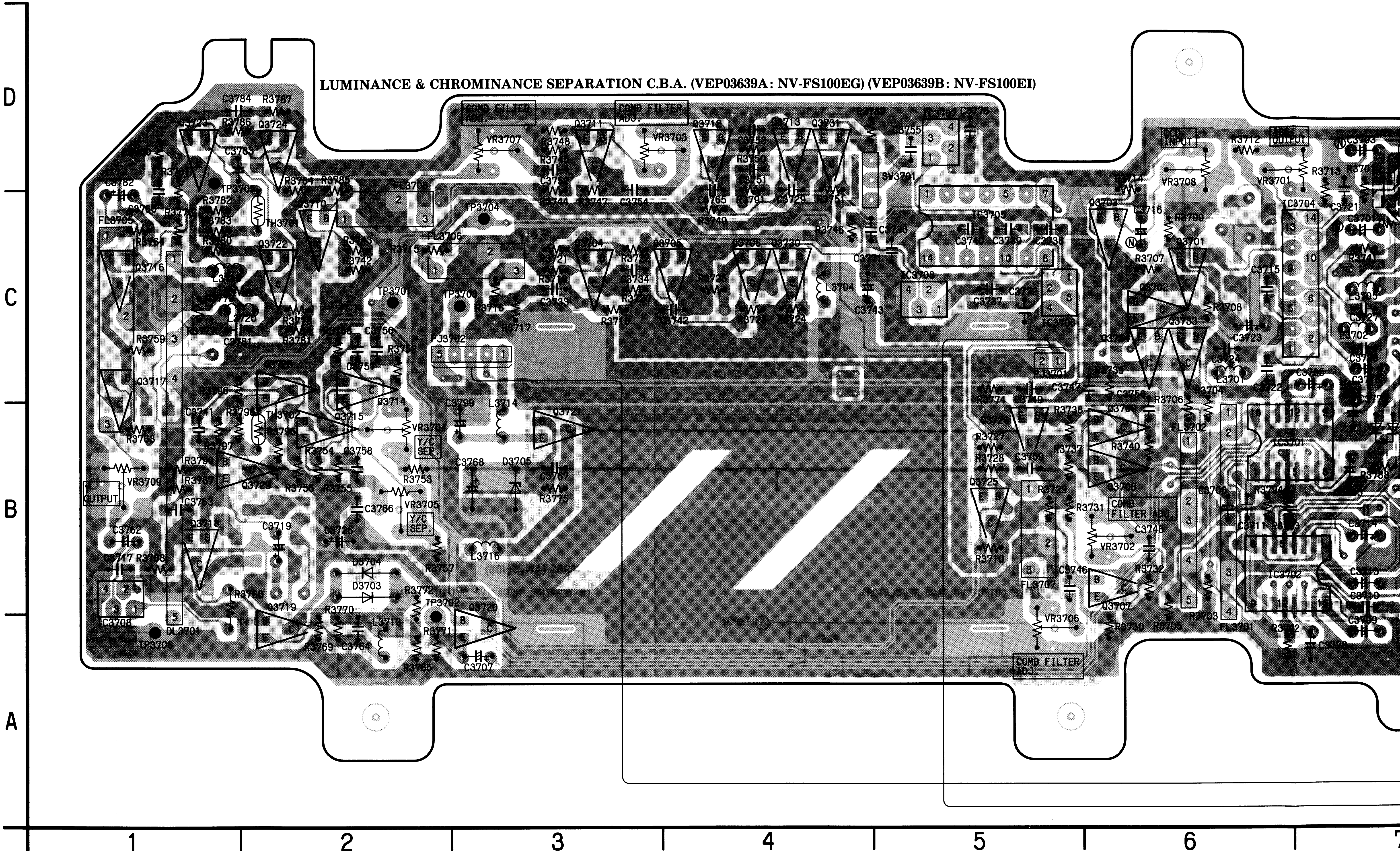

OUT 1
VDD(A) 2
FEED IN1 3
IN1 4
VGG1 5
AUTO1 6
VSS(D) 7
VCL 8
VSS(D) 9
VDD(D) 10
20 VSS(A)
19 VDD(A)
18 FEED IN2
17 IN2
16 VGG2
15 AUTO2
14 VSS(D)
13 VCL
12 CLK
11 VSS(D)
OUTPUT CIRCUIT
FEEDBACK CIRCUIT
FEEDBACK CIRCUIT
SYNC TIP CLAMP CIRCUIT
SYNC TIP CLAMP CIRCUIT
CCD 680 BIT
CCD 680 BIT
AUTOBIAS CIRCUIT (CENTER)
AUTOBIAS CIRCUIT (CLAMP)
CLOCK DRIVERS
CLOCK DRIVERS
TIMING GENERATOR CIRCUIT
TIMING GENERATOR CIRCUIT
Q
Q̄
T

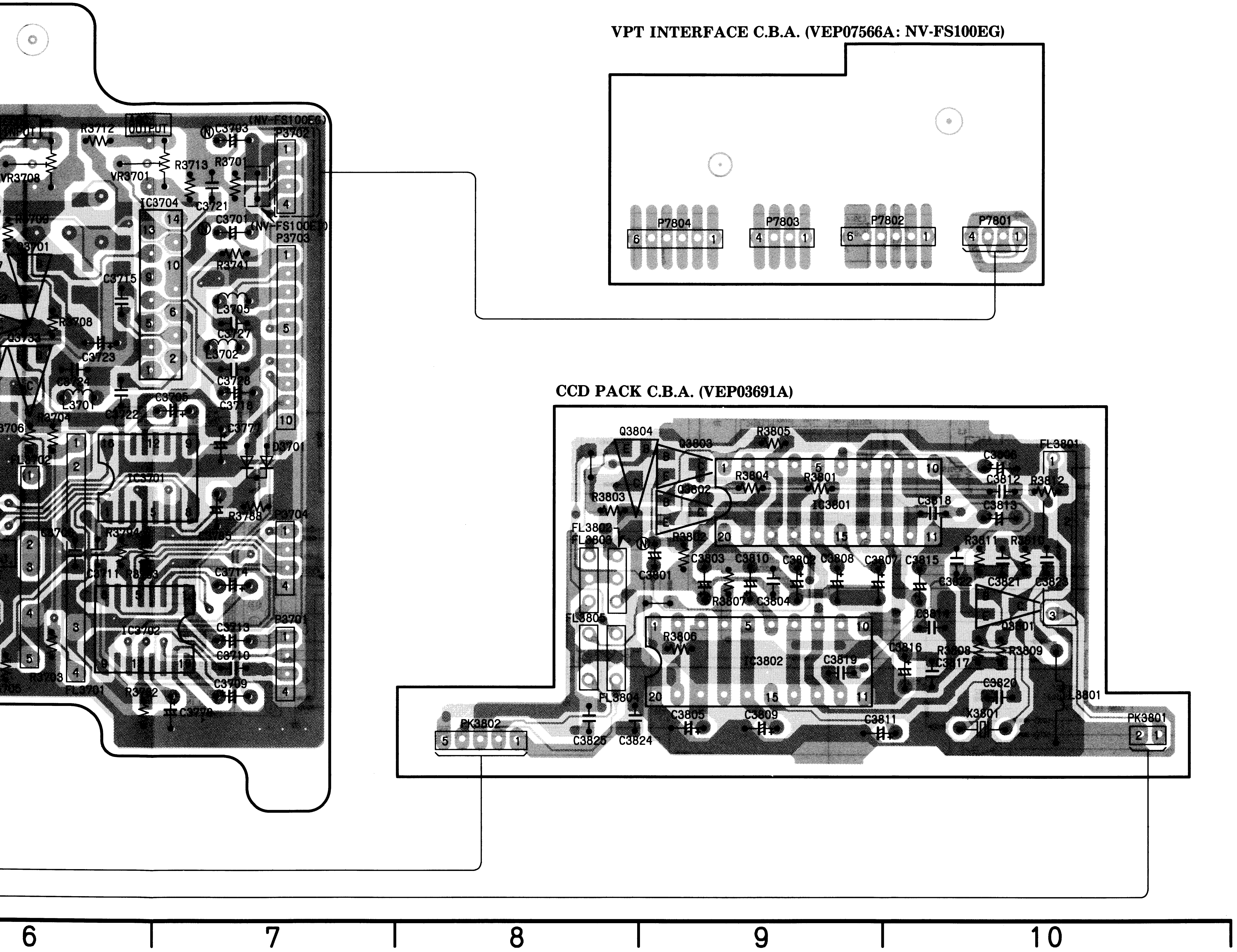
IC3705 (CX22013)

(DYNAMIC COMB FILTER)


V APACON SIG.OUT 14
GND 13
CHROMA OUT 12
VCC 11
C IN 10
B IN 9
A IN 8
HORIZONTAL CORRELATION
VERTICAL CORRELATION
GAIN CTL AMP
AMP
×2
AMP
×2
1 V APACON SIG.IN
2 V APACON CTL
3 Y OUT
4 H CORRELATION IN2
5 BIAS
6 H CORRELATION IN1
7 V CORRELATION OUT

3-20. LUMINANCE & CHROMINANCE SEPARATION C.B.A. (VEP03639A: NV-FS100EG) (VEP03639B: NV-FS100EI)


LUMINANCE & CHROMINANCE SEPARATION C.B.A. (VEP03639A: NV-FS100EG) (VEP03639B: NV-FS100EI)
D
C
B
A
1
2
3
4
5
6
7
COMB FILTER ADJ.
COMB FILTER ADJ.
CCD INPUT
ADD OUTPUT
OUTPUT
Y/C SEP.
Y/C SEP.
COMB FILTER ADJ.
COMB FILTER ADJ.
C3784
R3787
Q3723
R3786
Q3724
C3783
C3782
R3781
TP3705
R3784
R3785
FL3708
R3782
TH3701
Q3710
R3783
R3780
Q3722
FL3705
Q3716
R3743
R3742
R3715
FL3706
TP3704
VR3707
R3748
Q3711
VR3703
Q3712
Q3713
Q3731
R3789
IC3707
C3770
C3755
SW3701
R3744
R3747
C3754
C3765
R3791
C3729
R3751
R3749
R3746
C3736
IC3705
C3740
C3739
C3738
Q3704
Q3705
Q3706
Q3730
R3721
R3722
C3734
R3720
R3725
L3704
C3771
IC3703
C3743
C3737
C3772
IC3706
C3733
R3718
C3742
R3723
R3724
TP3701
TP3703
R3716
R3717
PJ3702
C3756
R3752
C3757
Q3714
Q3715
VR3704
Q3728
R3796
TH3702
R3795
R3797
C3741
R3759
C3781
R3788
Q3717
R3763
C3799
L3714
Q3721
R3754
C3758
R3798
R3767
Q3729
R3756
R3755
C3768
D3705
C3767
R3753
R3775
VR3709
VR3705
C3766
C3763
Q3718
C3719
C3726
C3762
C3717
R3768
D3704
D3703
R3757
L3716
IC3708
DL3701
TP3706
R3766
Q3719
R3770
R3769
C3764
L3713
R3772
TP3702
Q3720
R3771
R3765
C3707
Q3703
C3716
R3709
Q3701
R3714
VR3708
R3712
VR3701
R3713
C3721
IC3704
C3715
L3705
C3727
L3702
R3707
Q3702
R3708
Q3733
C3723
C3724
L3701
C3722
C3705
PJ3701
R3739
C3747
R3774
C3740
R3706
R3704
C3750
Q3709
R3738
C3728
R3727
R3728
C3759
R3737
R3740
FL3702
IC3701
Q3708
Q3725
R3729
R3731
C3706
R3794
C3711
R3793
C3748
VR3702
R3710
C3746
FL3707
R3732
Q3707
VR3706
R3730
R3705
R3703
FL3701
IC3702
R3702
C3778
C3709
C3714
C3713
C3700


VPT INTERFACE C.B.A. (VEP07566A: NV-FS100EG)

CCD PACK C.B.A. (VEP03691A)

INPUT
OUTPUT
(NV-FS100EG)
P3702
R3712
R3713
R3701
VR3708
VR3701
C3703
C3721
C3701
(NV-FS100EG)
P3703
IC3704
R3709
Q3701
C3715
R3741
L3705
R3708
Q3733
C3727
L3702
C3723
C3724
L3701
C3705
C3728
C3718
C3722
R3704
C3777
R3706
D3701
VR3702
IC3701
P3704
R3788
R3794
R3785
C3711
R3703
C3714
IC3702
C3713
C3710
P3701
R3783
FL3701
R3702
C3709
C3770
P7804
P7803
P7802
P7801
Q3804
Q3803
R3805
FL3801
R3804
R3801
C3806
C3812
R3812
R3803
Q3802
IC3801
C3818
C3813
FL3802
FL3803
R3802
C3803
C3810
C3802
C3808
C3807
C3815
R3811
R3810
C3801
R3807
C3804
C3822
C3821
C3823
FL3805
C3814
Q3801
R3806
IC3802
C3816
C3819
R3808
R3809
C3817
FL3804
C3820
C3805
C3809
C3811
X3801
L3801
PK3802
C3825
C3824
PK3801
6
7
8
9
10

LUMINANCE & CHROMINANCE SEPARATION C.B.A.	
Transistor	
Q3701	C-6
Q3702	C-6
Q3703	C-6
Q3704	C-3
Q3705	C-4
Q3706	C-4
Q3707	B-6
Q3708	B-6
Q3709	B-6
Q3710	C-2
Q3711	D-3
Q3712	D-4
Q3713	D-4
Q3714	C-2
Q3715	B-2
Q3716	C-1
Q3717	C-1
Q3718	B-1
Q3719	B-2
Q3720	B-3
Q3721	B-3
Q3722	C-2
Q3723	D-1
Q3724	D-2
Q3725	B-5
Q3726	B-5
Q3728	C-2
Q3729	B-2
Q3730	C-4
Q3731	D-4
Q3733	C-6
Q3734	C-6
Q3801	B-10
Q3802	B-9
Q3803	B-9
Q3804	B-8
Integrated Circuit	
IC3701	B-6
IC3702	B-6
IC3703	C-5
IC3704	C-7
IC3705	C-5
IC3706	C-5
IC3707	D-5
IC3708	A-1
IC3801	B-9
IC3802	B-9
Test Point	
TP3701	C-2
TP3702	B-2
TP3703	C-3
TP3704	C-3
TP3705	D-1
TP3706	A-1
Adjustment	
VR3701	D-6
VR3702	B-6
VR3703	D-3
VR3704	B-2
VR3705	B-2
VR3706	A-5
VR3707	D-3
VR3708	D-6
VR3709	B-1
Connector	
P3701	B-7
P3702	D-7
P3703	C-7
P3704	B-7
P7801	C-10
P7802	C-10
P7803	C-9
P7804	C-9
PJ3701	C-5
PJ3702	C-2
PK3801	A-10
PK3802	A-8

ADDRESS INFORMATION

3-21. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

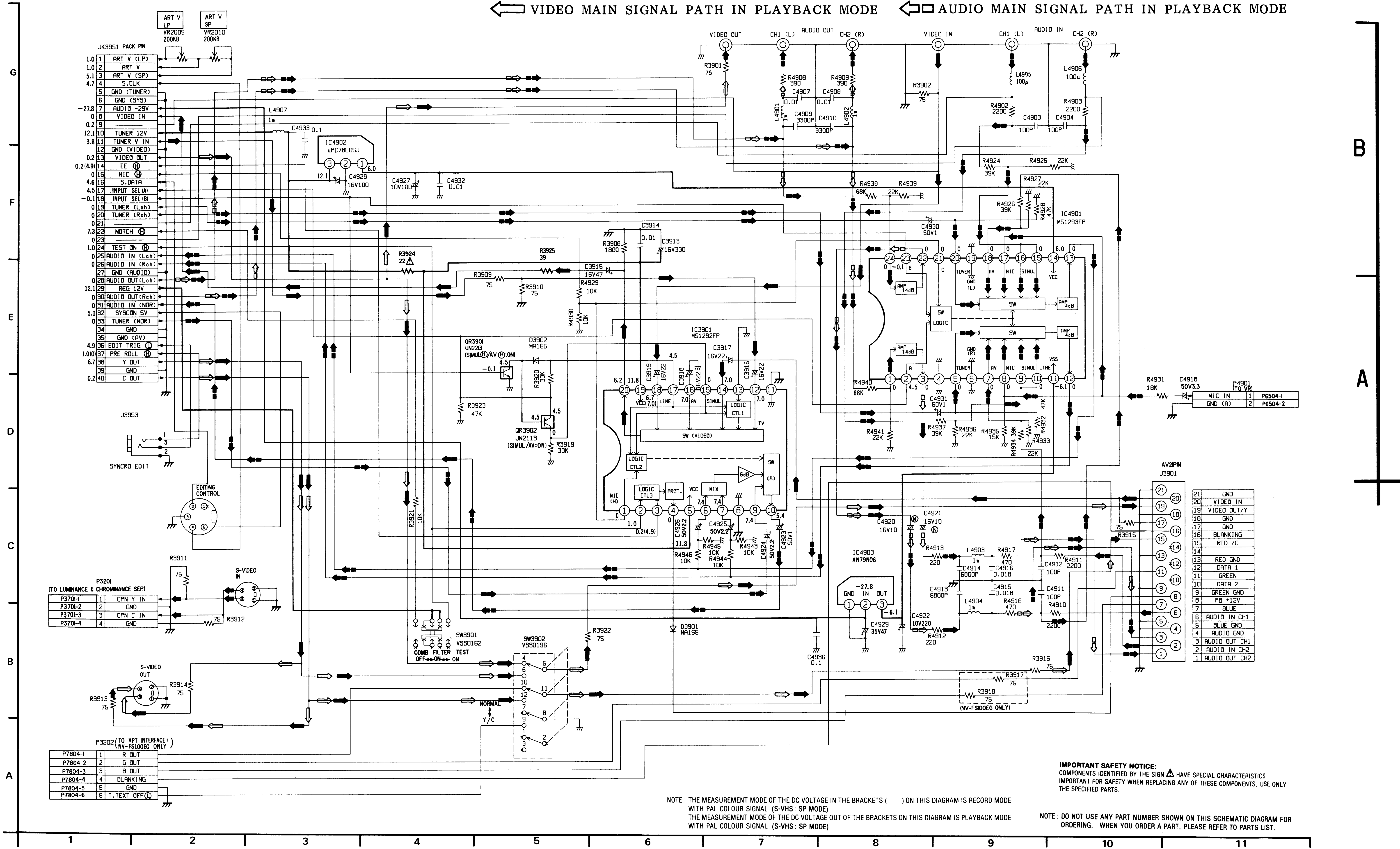
3-22.

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



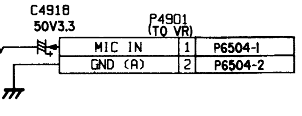
ART V LP VR2009 200KB
ART V SP VR2010 200KB
JK3951 PACK PIN
1.0 1 ART V (LP)
1.0 2 ART V
5.1 3 ART V (SP)
4.7 4 S.CLK
5 GND (TUNER)
6 GND (SYS)
-27.8 7 AUDIO -29V
0 8 VIDEO IN
0.2 9
12.1 10 TUNER 12V
3.8 11 TUNER V IN
12 GND (VIDEO)
0.2 13 VIDEO OUT
0.2(4.9) 14 EE Ⓗ
0 15 MIC Ⓗ
4.6 16 S.DATA
4.5 17 INPUT SEL(A)
-0.1 18 INPUT SEL(B)
0 19 TUNER (Lch)
0 20 TUNER (Rch)
0 21
7.3 22 NOTCH Ⓗ
0 23
1.0 24 TEST ON Ⓗ
0 25 AUDIO IN (Lch)
0 26 AUDIO IN (Rch)
27 GND (AUDIO)
0 28 AUDIO OUT(Lch)
12.1 29 REG 12V
0 30 AUDIO OUT(Rch)
0 31 AUDIO IN (NOR)
5.1 32 SYSCON 5V
0 33 TUNER (NOR)
34 GND
35 GND (AV)
4.9 36 EDIT TRIG Ⓛ
1.0(0) 37 PRE ROLL Ⓗ
6.7 38 Y OUT
39 GND
0.2 40 C OUT
VIDEO OUT
CH1 (L) AUDIO OUT CH2 (R)
VIDEO IN
CH1 (L) AUDIO IN CH2 (R)
R3901 75
R4908 390
R4909 390
C4907 0.01
C4908 0.01
C4909 3300P
C4910 3300P
L4901 1m
L4902 1m
R3902 75
L4905 100μ
L4906 100μ
R4902 2200
R4903 2200
C4903 100P
C4904 100P
L4907 1m
C4933 0.1
IC4902 uPC78L06J
12.1
6.0
C4928 16V100
C4927 10V100
C4932 0.01
R4924 39K
R4925 22K
R4927 22K
R4926 39K
R4928 47K
IC4901 M51293FP
R4938 68K
R4939 22K
C4930 50V1
C3914 0.01
R3908 1800
C3913 16V330
R3924 22
R3925 39
C3915 16V47
R3909 75
R3910 75
R4929 10K
R4930 10K
QR3901 UN2213 (SIMUL Ⓗ/AV Ⓗ:ON)
D3902 MA165
R3920 33K
R3923 47K
QR3902 UN2113 (SIMUL/AV:ON)
R3919 33K
IC3901 M51292FP
C3917 16V22
C3919 16V22
C3918 16V22
C3916 16V22
VCC(7.0) LINE AV SIMUL
LOGIC CTL1
SW (VIDEO)
LOGIC CTL2
LOGIC CTL3
PROT.
VCC
MIX
6dB
SW (A)
MIC (H)
TV
C4926 50V2.2
C4925 50V2.2
R4946 10K
R4945 10K
R4944 10K
R4943 10K
C4924 50V2.2
C4923 50V1
R3921 10K
TUNER GND (L) AV MIC SIMUL VCC
SW LOGIC
AMP 14dB
AMP 4dB
SW
TUNER GND (R) AV MIC SIMUL LINE VSS
R4940 68K
C4931 50V1
R4941 22K
R4937 39K
R4936 22K
R4935 15K
R4934 39K
R4932 47K
R4933 22K
R4931 18K
C4918 50V3.3
P4901 (TO VR)
MIC IN 1 P6504-1
GND (A) 2 P6504-2
J3953
SYNCRO EDIT
EDITING CONTROL
R3911 75
S-VIDEO IN
P3201 (TO LUMINANCE & CHROMINANCE SEP.)
P3701-1 1 CPN Y IN
P3701-2 2 GND
P3701-3 3 CPN C IN
P3701-4 4 GND
R3912 75
SW3901 VSS0162
COMB FILTER TEST OFF←ON→ON
SW3902 VSS0196
NORMAL Y/C
R3922 75
D3901 MA165
C4936 0.1
C4920 16V10
C4921 16V10
IC4903 AN79N06
-27.8 GND IN OUT -6.1
C4929 35V47
C4922 10V220
R4912 220
R4913 220
L4903 1m
C4914 6800P
C4913 6800P
L4904 1m
R4917 470
C4916 0.018
C4915 0.018
R4916 470
C4912 100P
C4911 100P
R4911 2200
R4910 2200
R3915 75
R3916 75
R3917 75
R3918 75
(NV-FS100EG ONLY)
S-VIDEO OUT
R3914 75
R3913 75
AV21PIN J3901
21 GND
20 VIDEO IN
19 VIDEO OUT/Y
18 GND
17 GND
16 BLANKING
15 RED /C
14
13 RED GND
12 DATA 1
11 GREEN
10 DATA 2
9 GREEN GND
8 PB +12V
7 BLUE
6 AUDIO IN CH1
5 BLUE GND
4 AUDIO GND
3 AUDIO OUT CH1
2 AUDIO IN CH2
1 AUDIO OUT CH2
P3202 (TO VPT INTERFACE: NV-FS100EG ONLY)
P7804-1 1 R OUT
P7804-2 2 G OUT
P7804-3 3 B OUT
P7804-4 4 BLANKING
P7804-5 5 GND
P7804-6 6 T.TEXT OFF Ⓛ
G
F
E
D
C
B
A
1 2 3 4 5 6 7 8 9 10 11

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

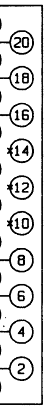
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

REC MODE
PLAYBACK MODE



C4918
50V3.3
P4901
(TO VR)
MIC IN
GND (A)
1
2
P6504-1
P6504-2

V2PIN
901



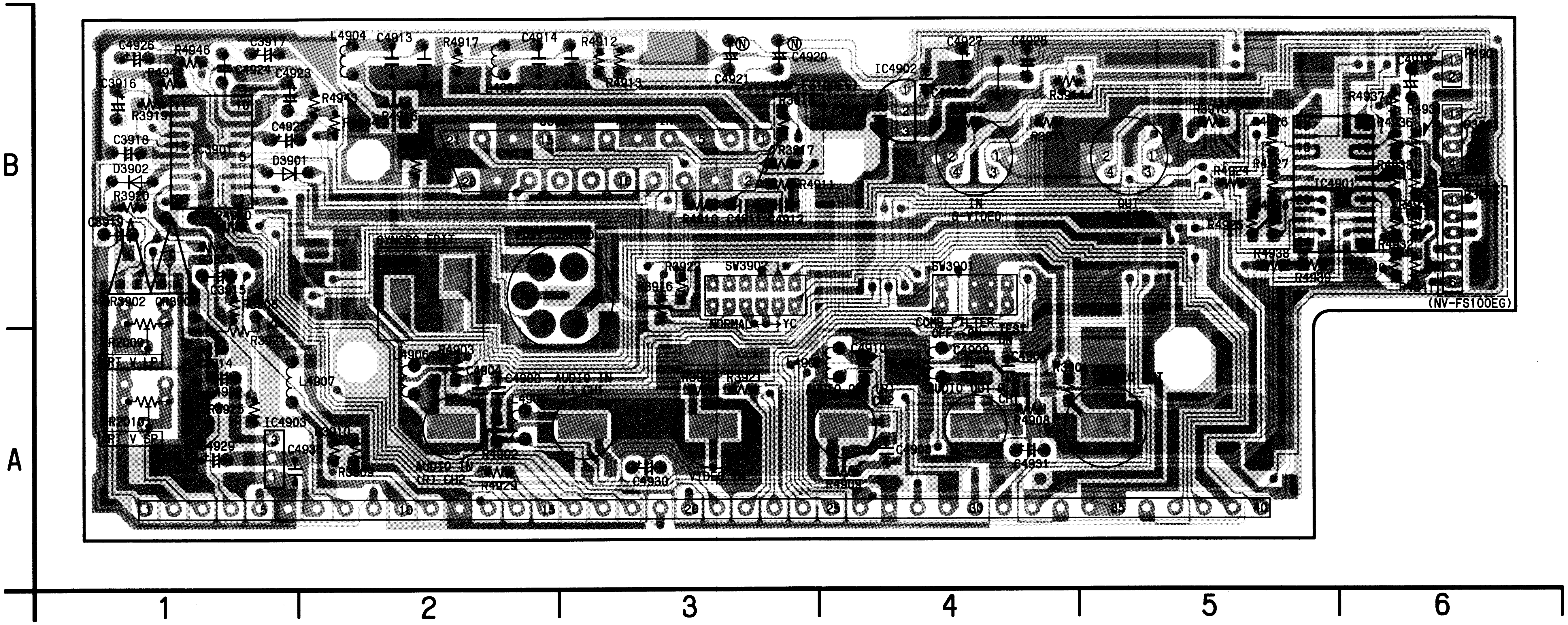
20
18
16
14
12
10
8
6
4
2

21	GND
20	VIDEO IN
19	VIDEO OUT/Y
18	GND
17	GND
16	BLANKING
15	RED /C
14	
13	RED GND
12	DATA 1
11	GREEN
10	DATA 2
9	GREEN GND
8	PB +12V
7	BLUE
6	AUDIO IN CH1
5	BLUE GND
4	AUDIO GND
3	AUDIO OUT CH1
2	AUDIO IN CH2
1	AUDIO OUT CH2

⚠ HAVE SPECIAL CHARACTERISTICS
ING ANY OF THESE COMPONENTS, USE ONLY

HOWN ON THIS SCHEMATIC DIAGRAM FOR
PART, PLEASE REFER TO PARTS LIST.

3-22. INPUT/OUTPUT PACK C.B.A. (VEP03641A: NV-FS100EG) (VEP03641B: NV-FS100EI)

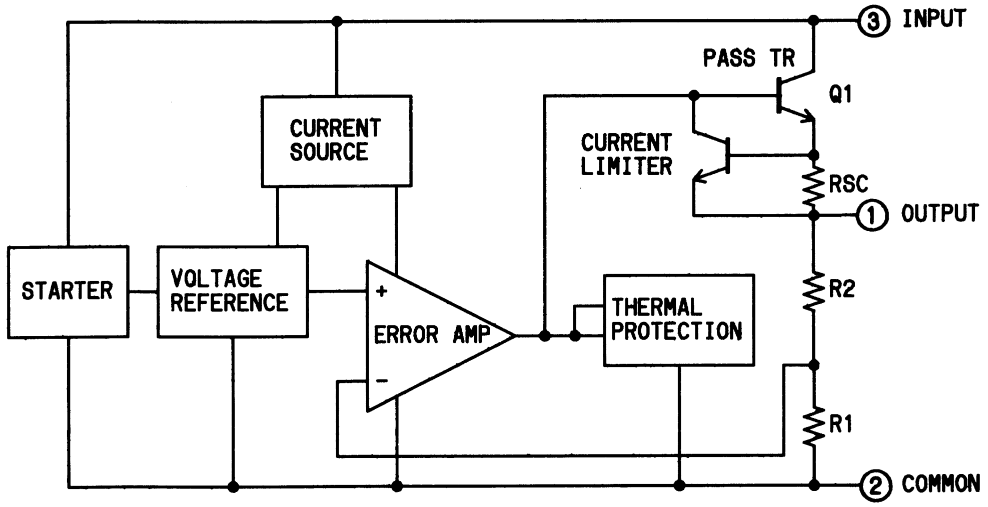


B
A
1
2
3
4
5
6
C4926
R4946
C3917
L4904
C4913
R4917
C4914
R4912
C4920
C4927
C4928
C3916
C4924
C4923
R4943
C4921
IC4902
R3913
C3918
IC3901
D3902
D3901
R3917
R4911
R3920
C3919
IN
S-VIDEO
OUT
IC4901
R4937
R4936
R4924
R4927
R4938
R4939
(NV-FS100EG)
R3902
QR3902
R2009
R2010
C3915
R3924
L4907
SW3902
NORMAL
YC
SW3901
COMB FILTER
OFF
ON
TEST
R3927
C3916
L4906
R4903
C4904
C4908
AUDIO IN
(L) CH1
R3921
C4910
C4909
AUDIO OUT
R4908
C4931
C4903
C4929
R3925
IC4903
C4930
R4902
R4929
AUDIO IN
(R) CH2
R3909
VIDEO
R4909
1
5
10
15
20
25
30
35
40
21
20

IC BLOCK

IC4902 (μPC78L06J)

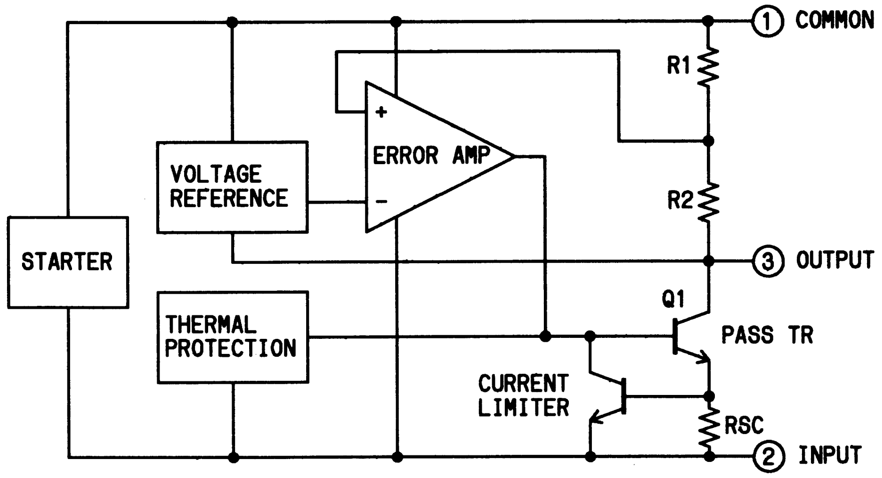
(3-TERMINAL POSITIVE OUTPUT VOLTAGE REGULATOR)



③ INPUT
PASS TR
Q1
CURRENT SOURCE
CURRENT LIMITER
RSC
① OUTPUT
STARTER
VOLTAGE REFERENCE
+
ERROR AMP
−
THERMAL PROTECTION
R2
R1
② COMMON

IC4903 (AN79N06)

(3-TERMINAL NEGATIVE OUTPUT VOLTAGE REGULATOR)



① COMMON
R1
+
ERROR AMP
−
VOLTAGE REFERENCE
R2
STARTER
③ OUTPUT
Q1
THERMAL PROTECTION
PASS TR
CURRENT LIMITER
RSC
② INPUT

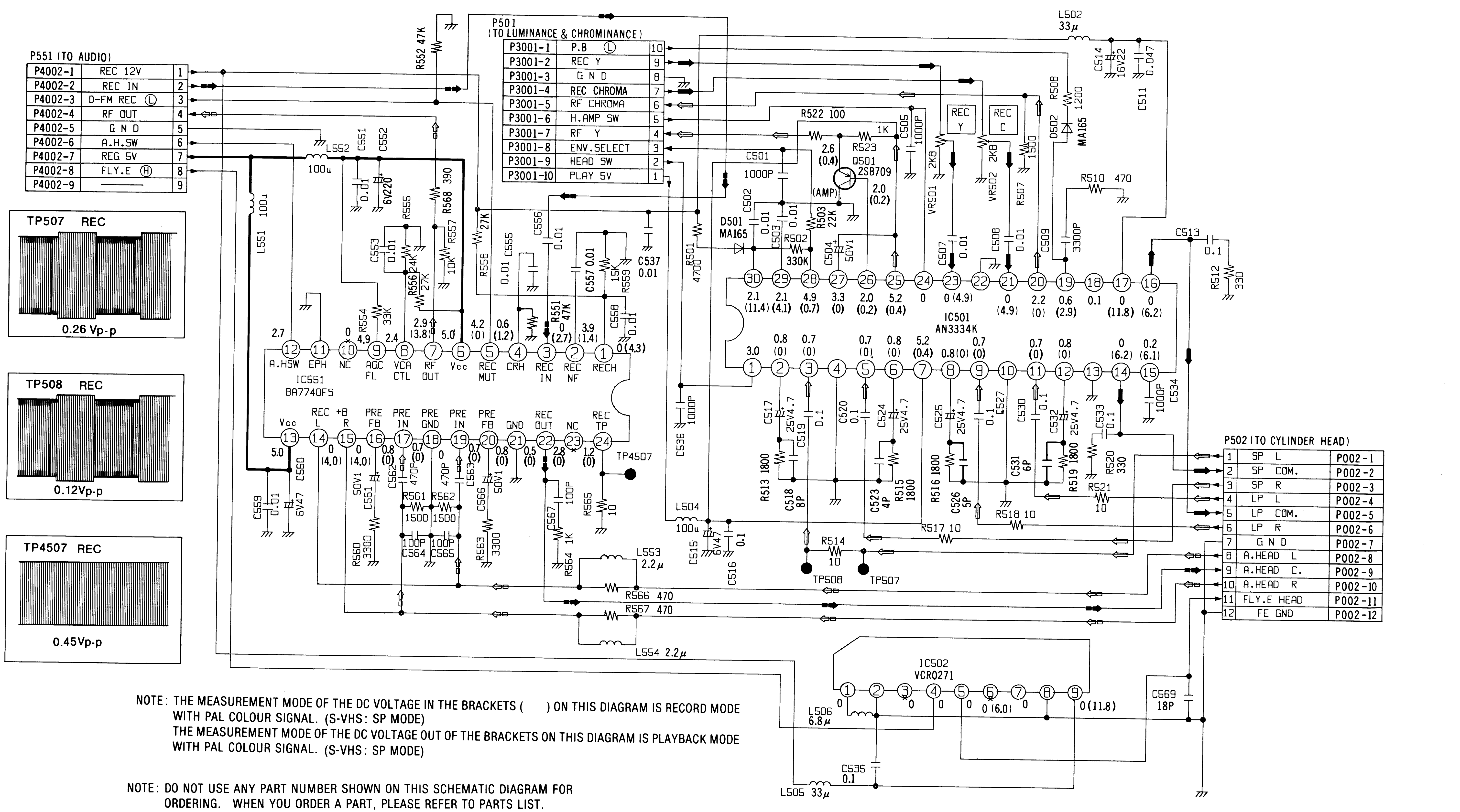
INPUT/OUTPUT PACK C.B.A.	
Transistor & Resistor	
QR3901	B-1
QR3902	B-1
Integrated Circuit	
IC3901	B-1
IC4901	B-5
IC4902	B-4
IC4903	A-1
Adjustment	
VR2009	A-1
VR2010	A-1
Connector	
P3201	B-6
P3202	B-6
P4901	B-6

ADDRESS INFORMATION

3-23. HEAD AMP SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE
Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK


E
D
C
B
A
1
2
3
4
5
6
7
P551 (TO AUDIO)
P4002-1 REC 12V 1
P4002-2 REC IN 2
P4002-3 D-FM REC Ⓛ 3
P4002-4 RF OUT 4
P4002-5 GND 5
P4002-6 A.H.SW 6
P4002-7 REG 5V 7
P4002-8 FLY.E Ⓗ 8
P4002-9 9
P501 (TO LUMINANCE & CHROMINANCE)
P3001-1 P.B Ⓛ 10
P3001-2 REC Y 9
P3001-3 GND 8
P3001-4 REC CHROMA 7
P3001-5 RF CHROMA 6
P3001-6 H.AMP SW 5
P3001-7 RF Y 4
P3001-8 ENV.SELECT 3
P3001-9 HEAD SW 2
P3001-10 PLAY 5V 1
P502 (TO CYLINDER HEAD)
1 SP L P002-1
2 SP COM. P002-2
3 SP R P002-3
4 LP L P002-4
5 LP COM. P002-5
6 LP R P002-6
7 GND P002-7
8 A.HEAD L P002-8
9 A.HEAD C. P002-9
10 A.HEAD R P002-10
11 FLY.E HEAD P002-11
12 FE GND P002-12
TP507 REC
0.26 Vp-p
TP508 REC
0.12Vp-p
TP4507 REC
0.45Vp-p
IC551
BA7740FS
A.HSW
EPH
NC
AGC FL
VCA CTL
RF OUT
Vcc
REC MUT
CRH
REC IN
REC NF
RECH
Vcc
REC L
+B R
PRE FB
PRE IN
PRE GND
PRE IN
PRE FB
GND
REC OUT
NC
REC TP
TP4507
IC501
AN3334K
IC502
VCR0271
Q501
2SB709
(AMP)
D501
MA165
D502
MA165
REC Y
REC C
R552 47K
L552 100u
L551 100u
C551 0.01
C552 6V220
R555
R568 390
R557 10K
C553 0.01
R556 24K 27K
R554 33K
R558 27K
C555 0.01
C556 0.01
R551 47K
C557 0.01
R559 15K
C537 0.01
C558 0.01
R501 4700
C501 1000P
C502 0.01
C503 0.01
R502 330K
R503 22K
C504 50V1
R522 100
R523 1K
C505 1000P
VR501 2KB
VR502 2KB
R507 1500
R508 1200
C507 0.01
C508 0.01
C509 0.01
C506 3300P
R510 470
L502 33µ
C514 16V22
C511 0.047
C513 0.1
R512 330
C536 1000P
C517 25V4.7
C519
C518 8P
R513 1800
C520 0.1
C524 25V4.7
C523 4P
R515 1800
C525 25V4.7
C526 5P
R516 1800
C527 0.1
C530
C531 6P
C532 0.1
R519 1800
C533 0.1
R520 330
R521 10
C534 1000P
R518 10
R517 10
R514 10
TP508
TP507
L504 100µ
C515 6V47
C516 0.1
C559 0.01
C560 6V47
C561 50V1
C562 470P
C563 470P
R561 1500
R562 1500
C564 100P
C565 100P
R560 3300
R563 3300
C566 50V1
C567 100P
R564 1K
R565 10
L553 2.2µ
R566 470
R567 470
L554 2.2µ
L506 6.8µ
C535 0.1
L505 33µ
C569 18P

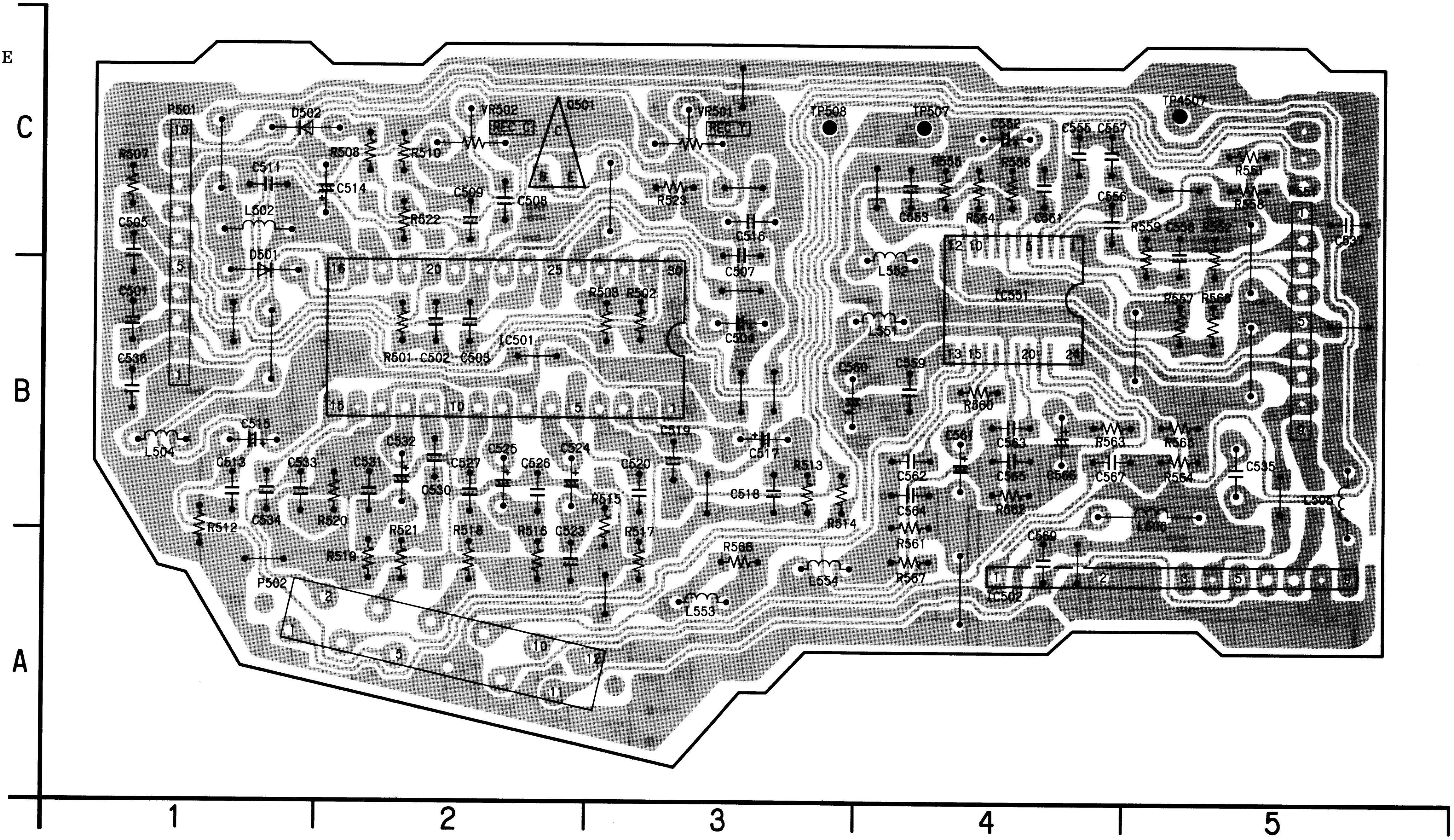
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

IN SIGNAL PATH IN REC MODE

IN SIGNAL PATH IN PLAYBACK MODE

3-24. HEAD AMP C.B.A. (VEP05149A)


C
B
A
1
2
3
4
5
P501
D502
VR502
REC C
Q501
C
B
E
VR501
REC Y
TP508
TP507
TP4507
C552
C555
C557
R507
C511
R508
R510
C514
C509
C508
R523
R555
R556
R551
R558
P551
L502
R522
C516
C553
R554
C561
C556
R559
C558
R552
C537
C505
D501
C507
L552
IC551
C501
R503
R502
R557
R568
R501
C502
C503
IC501
C504
L551
C536
C560
C559
R560
L504
C515
C519
C517
C561
C563
R563
R565
C513
C533
C531
C532
C527
C525
C526
C524
C520
R513
C562
C565
C566
C567
R564
C535
C530
C518
C564
L505
R512
C534
R520
R521
R518
R516
C523
R515
R517
R514
R562
L506
R519
R566
R561
C569
P502
L554
R567
IC502
L553
16
20
25
30
15
10
5
1
12
13
24

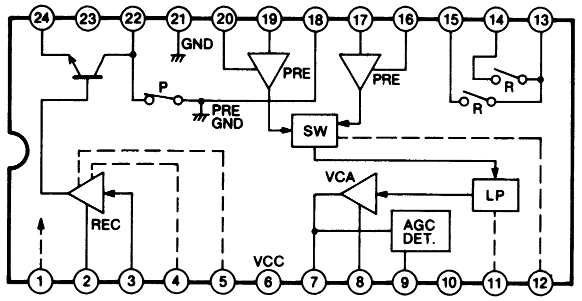
P502 (TO CYLINDER HEAD)

1	SP L	P002-1
2	SP COM.	P002-2
3	SP R	P002-3
4	LP L	P002-4
5	LP COM.	P002-5
6	LP R	P002-6
7	G N D	P002-7
8	A.HEAD L	P002-8
9	A.HEAD C.	P002-9
10	A.HEAD R	P002-10
11	FLY.E HEAD	P002-11
12	FE GND	P002-12

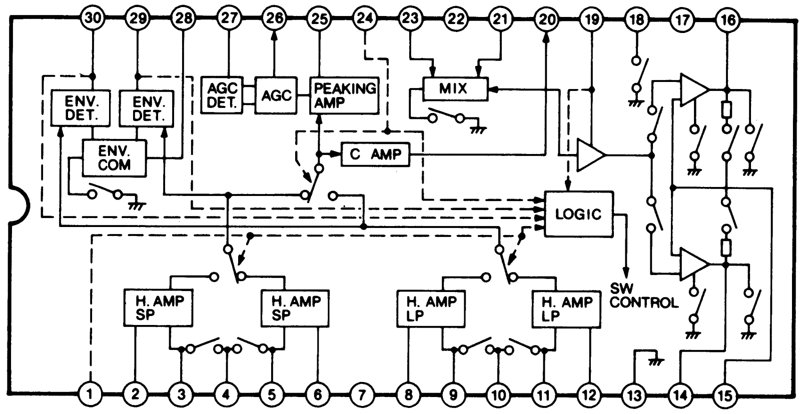
7

IC BLOCK

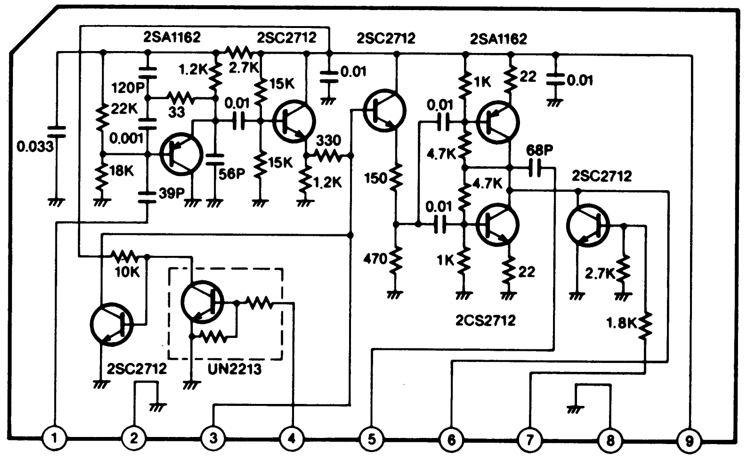
IC551 (BA7740FS)


24
23
22
21
20
19
18
17
16
15
14
13
GND
PRE
PRE
P
PRE GND
SW
R
R
VCA
LP
REC
AGC DET.
VCC
1
2
3
4
5
6
7
8
9
10
11
12

IC501 (AN3334K)


30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ENV. DET.
ENV. DET.
AGC DET.
AGC
PEAKING AMP
MIX
ENV. COM
C AMP
LOGIC
H. AMP SP
H. AMP SP
H. AMP LP
H. AMP LP
SW CONTROL
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

IC502 (VCR0271)


2SA1162
2SC2712
2SC2712
2SA1162
1.2K
2.7K
120P
33
15K
0.01
1K
22
0.01
22K
0.01
0.001
330
4.7K
0.033
18K
56P
15K
1.2K
150
68P
39P
4.7K
2SC2712
0.01
470
1K
22
10K
2.7K
2CS2712
1.8K
2SC2712
UN2213
1
2
3
4
5
6
7
8
9

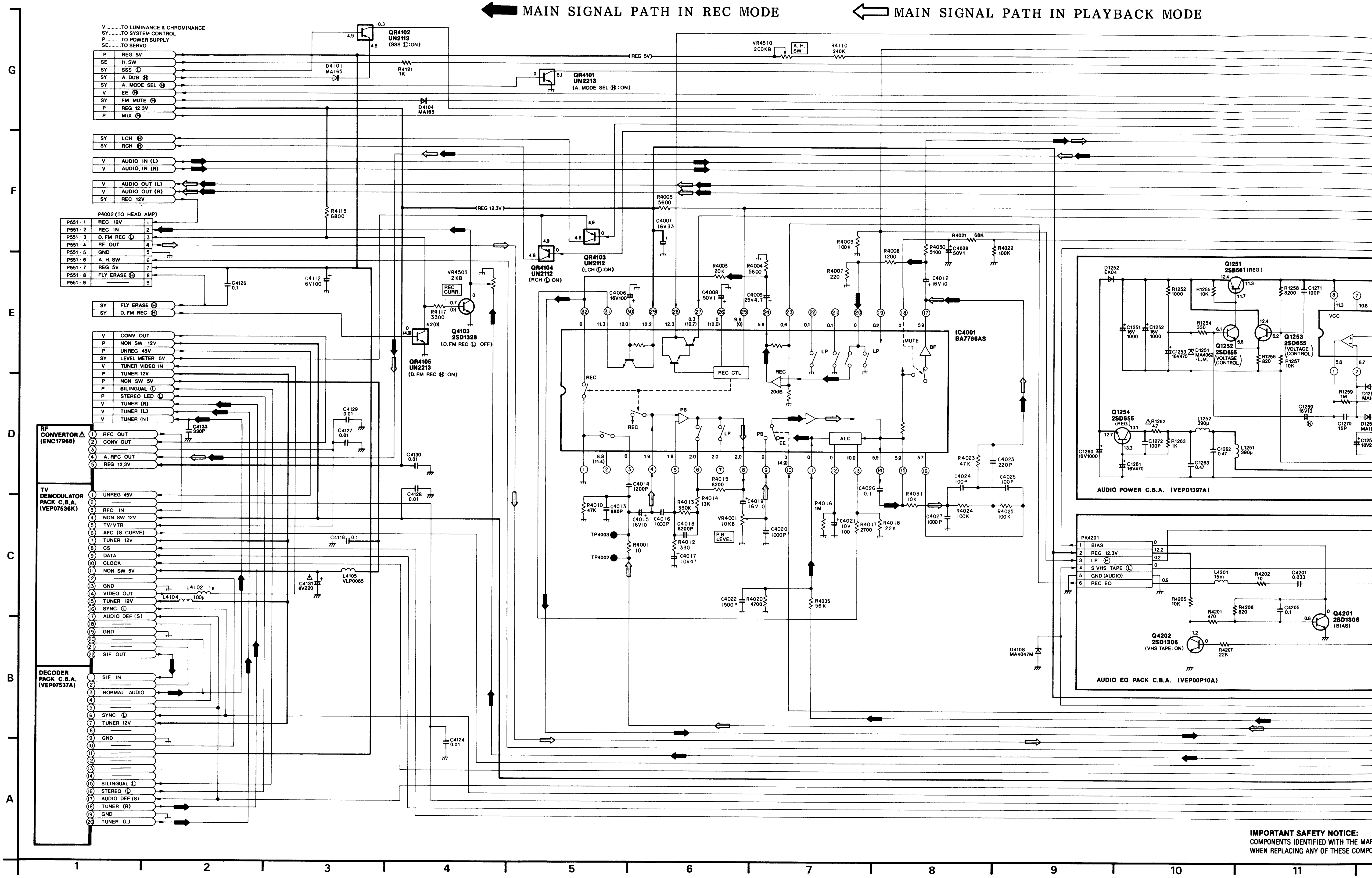
HEAD AMP C.B.A.	
Transistor	
Q501	C-2
Integrated Circuit	
IC501 IC502 IC551	B-2 A-4 B-4
Test Point	
TP507 TP508 TP4507	C-4 C-3 C-5
Adjustment	
VR501 VR502	C-3 C-2
Connector	
P501 P502 P551	C-1 A-1 C-5

ADDRESS INFORMATION

3-25. AUDIO SCHEMATIC DIAGRAM

⬅ MAIN SIGNAL PATH IN REC MODE

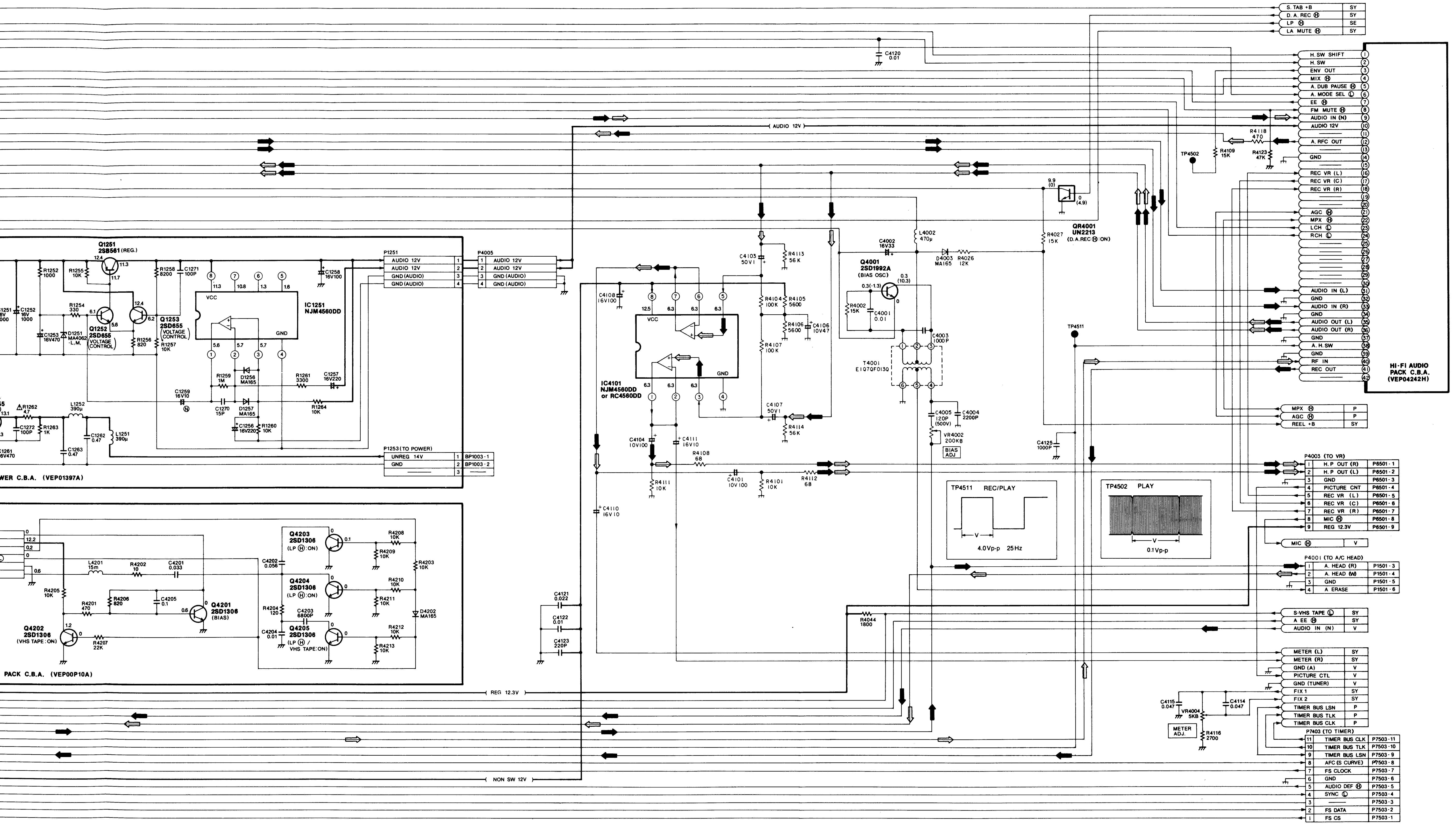
⇦ MAIN SIGNAL PATH IN PLAYBACK MODE


V ....TO LUMINANCE & CHROMINANCE
SY ......TO SYSTEM CONTROL
P ....TO POWER SUPPLY
SE ......TO SERVO
REG 5V
H. SW
SSS Ⓛ
A. DUB Ⓗ
A. MODE SEL Ⓗ
EE Ⓗ
FM MUTE Ⓗ
REG 12.3V
MIX Ⓗ
LCH Ⓗ
RCH Ⓗ
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
REC 12V
P4002 (TO HEAD AMP)
REC 12V
REC IN
D. FM REC Ⓛ
RF OUT
GND
A. H. SW
REG 5V
FLY ERASE Ⓗ
FLY ERASE Ⓗ
D. FM REC Ⓗ
CONV OUT
NON SW 12V
UNREG 45V
LEVEL METER 5V
TUNER VIDEO IN
TUNER 12V
NON SW 5V
BILINGUAL Ⓛ
STEREO LED Ⓛ
TUNER (R)
TUNER (L)
TUNER (N)
RF CONVERTOR (ENC17966)
RFC OUT
A. RFC OUT
REG 12.3V
TV DEMODULATOR PACK C.B.A. (VEP07536K)
RFC IN
TV/VTR
AFC (S CURVE)
CS
DATA
CLOCK
VIDEO OUT
SYNC Ⓛ
AUDIO DEF (S)
SIF OUT
DECODER PACK C.B.A. (VEP07537A)
SIF IN
NORMAL AUDIO
STEREO Ⓛ
QR4102 UN2113 (SSS Ⓛ:ON)
QR4101 UN2213 (A. MODE SEL Ⓗ:ON)
QR4103 UN2112 (LCH Ⓛ:ON)
QR4104 UN2112 (RCH Ⓛ:ON)
QR4105 UN2213 (D. FM REC Ⓗ:ON)
Q4103 2SD1328 (D. FM REC Ⓛ:OFF)
VR4503 2KB
REC CURR.
D4101 MA165
D4104 MA165
VR4510 200KB
A. H. SW
R4110 240K
IC4001 BA7766AS
REC CTL
MUTE
BF
ALC
PB
EE
LP
REC
20dB
VR4001 10KB
P.B LEVEL
TP4003
TP4002
L4105 VLP0085
AUDIO POWER C.B.A. (VEP01397A)
Q1251 2SB561 (REG.)
Q1252 2SD655 (VOLTAGE CONTROL)
Q1253 2SD655 (VOLTAGE CONTROL)
Q1254 2SD655 (REG.)
D1251 MA4062 -L.M.
D1252 EK04
VCC
AUDIO EQ PACK C.B.A. (VEP00P10A)
PK4201
BIAS
REG 12.3V
LP Ⓗ
S VHS TAPE Ⓛ
GND (AUDIO)
REC EQ
Q4201 2SD1306 (BIAS)
Q4202 2SD1306 (VHS TAPE: ON)
D4108 MA4047M
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MAR
WHEN REPLACING ANY OF THESE COMPO

Back Page:
HEAD AMP Section

ACK MODE


S. TAB +B
D. A. REC Ⓗ
LP Ⓗ
LA MUTE Ⓗ
H. SW SHIFT
H. SW
ENV OUT
MIX Ⓗ
A. DUB PAUSE Ⓗ
A. MODE SEL Ⓛ
EE Ⓗ
FM MUTE Ⓗ
AUDIO IN (N)
AUDIO 12V
A. RFC OUT
GND
REC VR (L)
REC VR (C)
REC VR (R)
AGC Ⓗ
MPX Ⓗ
LCH Ⓛ
RCH Ⓛ
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
A. H.SW
RF IN
REC OUT
HI-FI AUDIO PACK C.B.A. (VEP04242H)
Q1251 2SB561 (REG.)
Q1252 2SD655 (VOLTAGE CONTROL)
Q1253 2SD655 (VOLTAGE CONTROL)
IC1251 NJM4560DD
P1251
P4005
P1253 (TO POWER)
UNREG 14V
WER C.B.A. (VEP01397A)
IC4101 NJM4560DD or RC4560DD
Q4001 2SD1992A (BIAS OSC)
T4001 E1Q7QF013Q
VR4002 200KB
BIAS ADJ
QR4001 UN2213 (D.A.REC Ⓗ:ON)
TP4502
TP4511
TP4511 REC/PLAY
4.0Vp-p 25Hz
TP4502 PLAY
0.1Vp-p
Q4201 2SD1306 (BIAS)
Q4202 2SD1306 (VHS TAPE:ON)
Q4203 2SD1306 (LP Ⓗ:ON)
Q4204 2SD1306 (LP Ⓗ:ON)
Q4205 2SD1306 (LP Ⓗ / VHS TAPE:ON)
PACK C.B.A. (VEP00P10A)
AUDIO 12V
REG 12.3V
NON SW 12V
P4003 (TO VR)
H. P OUT (R)
H. P OUT (L)
PICTURE CNT
MIC Ⓗ
REG 12.3V
P4001 (TO A/C HEAD)
A. HEAD (R)
A. HEAD (W)
A. ERASE
S-VHS TAPE Ⓛ
A EE Ⓗ
METER (L)
METER (R)
GND (A)
PICTURE CTL
GND (TUNER)
FIX 1
FIX 2
TIMER BUS LSN
TIMER BUS TLK
TIMER BUS CLK
VR4004 5KB
METER ADJ.
P7403 (TO TIMER)
AFC (S CURVE)
FS CLOCK
AUDIO DEF Ⓗ
SYNC Ⓛ
FS DATA
FS CS

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

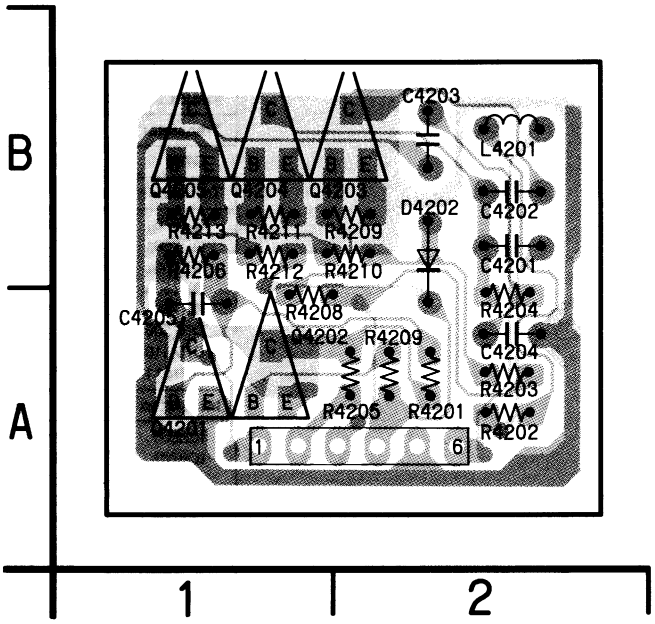
NOTE: THE MEASUREMENT MODE OF THE
DC VOLTAGES ARE FOLLOWING CONDITION.
(S-VHS: SP MODE)

- LINE IN SIGNAL LEVEL…−10dB 1kHz
- MEASUREMENT MODE
  REC…BRACKETS (   )
  PLAY…WITHOUT BRACKETS

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS
SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU
ORDER A PART, PLEASE REFER TO PARTS LIST.

10 11 12 13 14 15 16 17 18 19 20 21

3-26. AUDIO EQ PACK C.B.A. (VEP00P10A)


B
A
1
2
C4203
L4201
Q4205
Q4204
Q4203
D4202
C4202
R4213
R4211
R4209
R4206
R4212
R4210
C4201
R4208
R4204
C4205
Q4202
R4209
C4204
R4203
R4205
R4201
R4202
Q4201
1
6
B
C
E

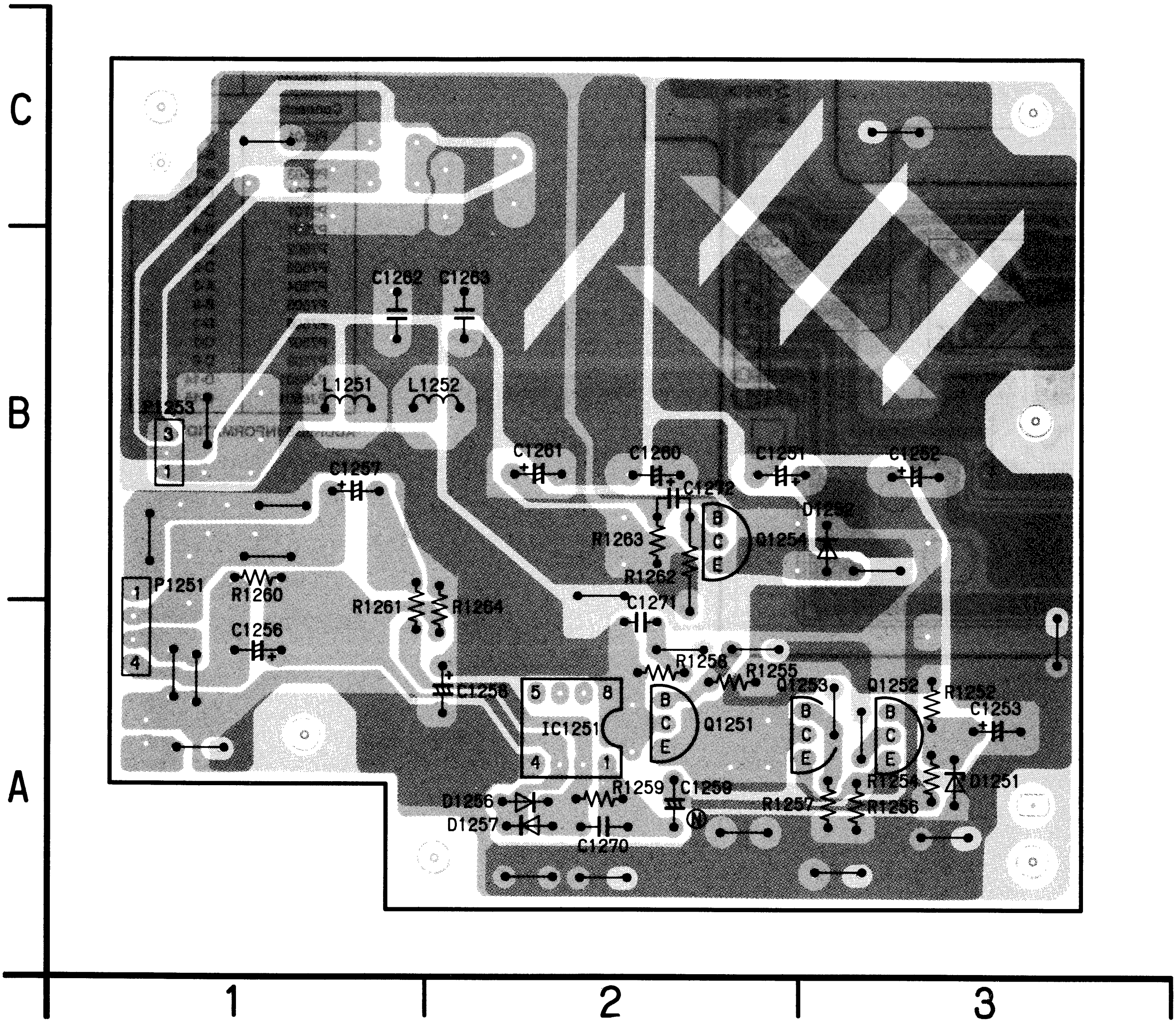
AUDIO EQ PACK C.B.A.	
Transistor	
Q4201	A-1
Q4202	A-1
Q4203	B-2
Q4204	B-1
Q4205	B-1

ADDRESS INFORMATION

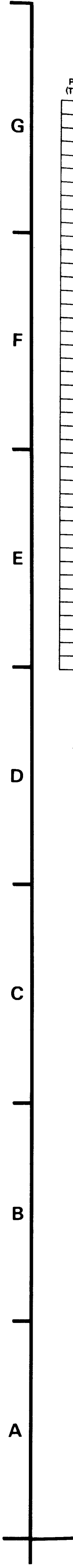
AUDIO POWER C.B.A.	
Transistor	
Q1251	A-2
Q1252	A-3
Q1253	A-3
Q1254	B-2
Integrated Circuit	
IC1251	A-2
Connector	
P1251	B-1
P1253	B-1

ADDRESS INFORMATION

3-27. AUDIO POWER C.B.A. (VEP01397A)

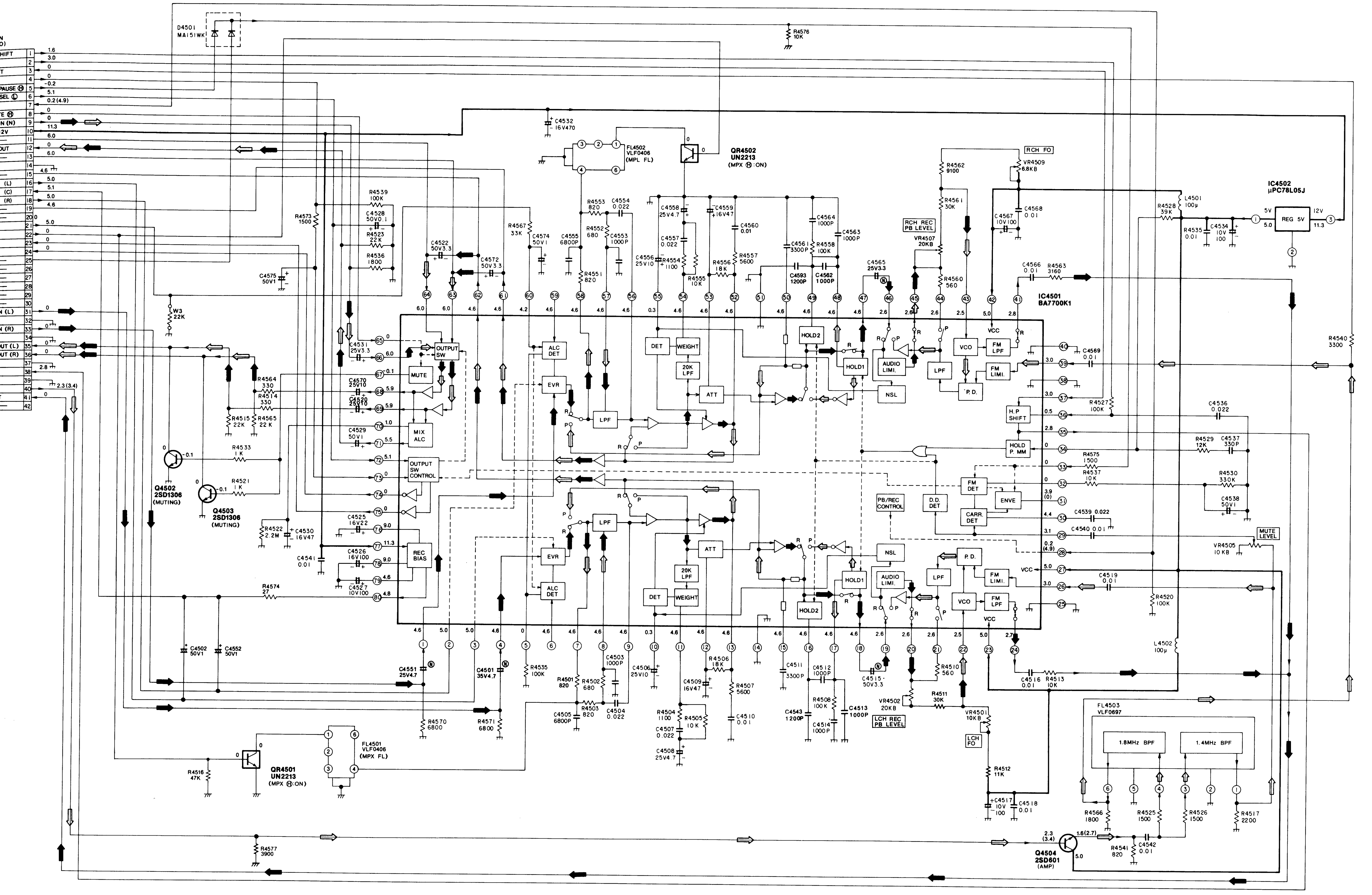

C
B
A
1
2
3
C1262
C1263
L1251
L1252
P1253
3
1
C1261
C1260
C1251
C1252
C1257
C1272
D1252
R1263
Q1254
B
C
E
R1262
P1251
1
4
R1260
R1261
R1264
C1271
C1256
R1258
R1255
Q1253
Q1252
R1252
C1253
C1258
5
8
IC1251
4
1
Q1251
R1259
C1259
R1254
D1251
R1257
R1256
D1256
D1257
C1270

3-28



Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM

⬅ MAIN SIGNAL PATH IN REC MODE ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE


D4501 MA151WK
QR4502 UN2213 (MPX Ⓗ:ON)
FL4502 VLF0406 (MPL FL)
C4532 16V470
R4576 10K
IC4502 µPC78L05J
REG 5V
12V
5V
L4501 100µ
RCH FO
VR4509 6.8KB
RCH REC PB LEVEL
VR4507 20KB
IC4501 BA7700K1
OUTPUT SW
MUTE
MIX ALC
OUTPUT SW CONTROL
REC BIAS
ALC DET
EVR
LPF
DET
WEIGHT
20K LPF
ATT
HOLD2
HOLD1
AUDIO LIMI.
NSL
LPF
VCO
FM LPF
FM LIMI.
P.D.
H.P SHIFT
HOLD P. MM
FM DET
ENVE
CARR. DET
D.D. DET
PB/REC CONTROL
VCC
MUTE LEVEL
VR4505 10KB
Q4502 2SD1306 (MUTING)
Q4503 2SD1306 (MUTING)
QR4501 UN2213 (MPX Ⓗ:ON)
FL4501 VLF0406 (MPX FL)
VR4502 20KB
LCH REC PB LEVEL
VR4501 10KB
LCH FO
L4502 100µ
FL4503 VLF0697
1.8MHz BPF
1.4MHz BPF
Q4504 2SD601 (AMP)

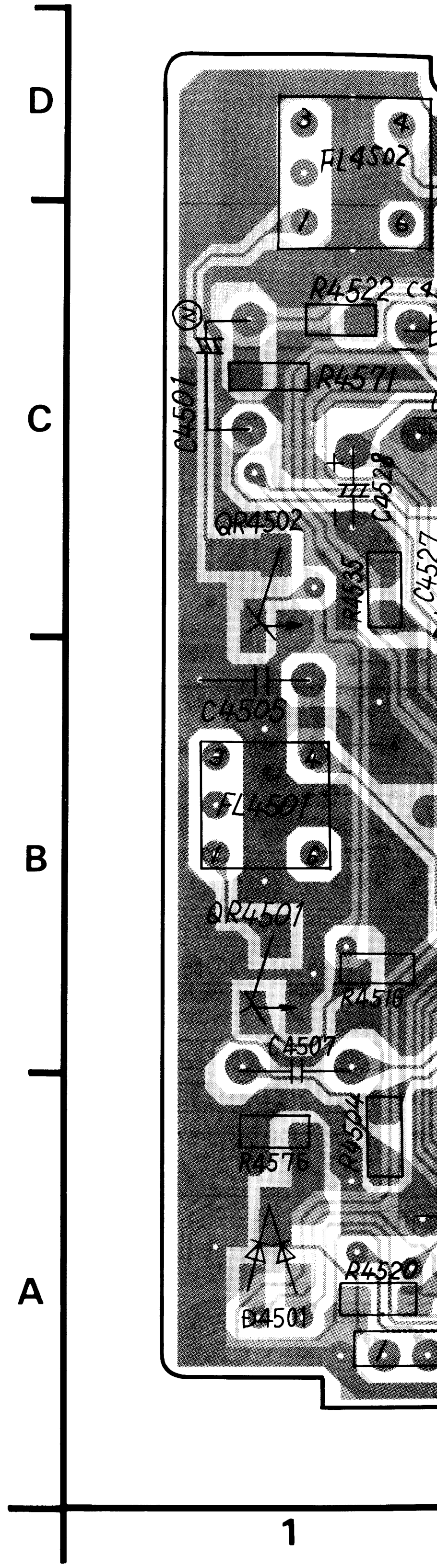
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION. (SP MODE)

- LINE IN SIGNAL LEVEL... −10dB 1kHz
- MEASUREMENT MODE
  REC...BRACKETS ( )
  PLAY...WITHOU BRACKETS

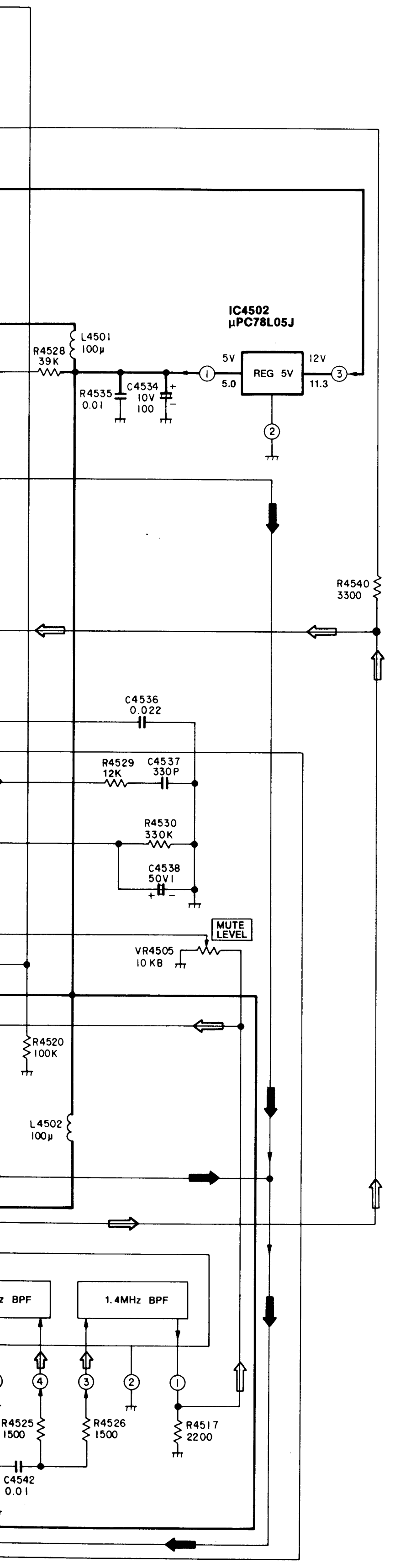
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

1 2 3 4 5 6 7 8 9 10

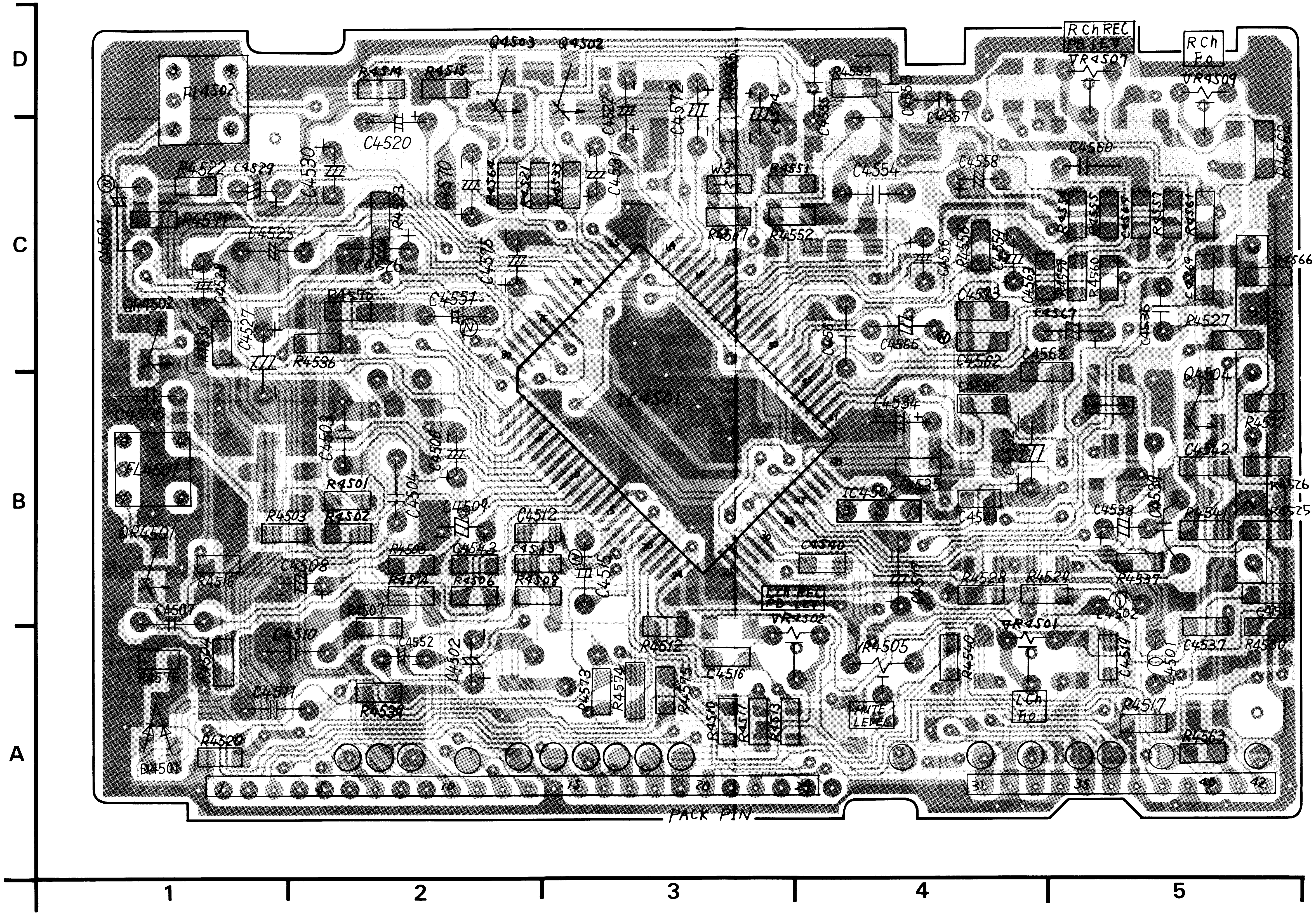
3-29. Hi-Fi AUDIO PA


D
C
B
A
1
FL4502
R4522
R4571
C4501
QR4302
C4529
C4527
C4505
FL4501
QR4501
R4516
C4507
R4576
R4504
R4520
D4501

3-29. Hi-Fi AUDIO PACK C.B.A. (VEP04242H)


IC4502
µPC78L05J
REG 5V
5V
12V
5.0
11.3
L4501 100µ
R4528 39K
R4535 0.01
C4534 10V 100
R4540 3300
C4536 0.022
R4529 12K
C4537 330P
R4530 330K
C4538 50V1
MUTE LEVEL
VR4505 10KB
R4520 100K
L4502 100µ
BPF
1.4MHz BPF
R4525 1500
R4526 1500
R4517 2200
C4542 0.01
10

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

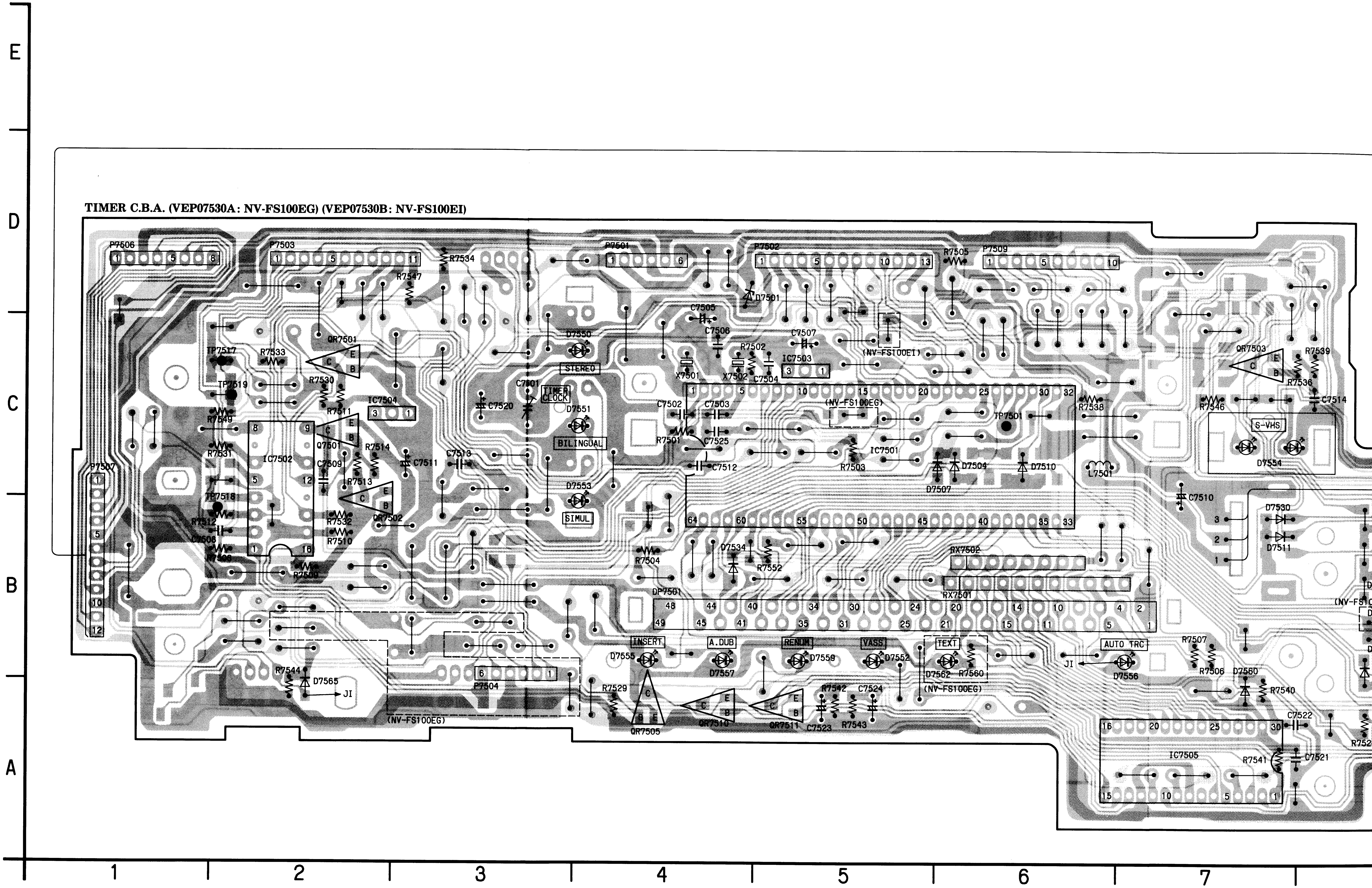

D
C
B
A
1
2
3
4
5
R Ch REC PB LEV
R Ch Fo
VR4507
VR4509
Q4503
Q4502
Q4504
FL4502
FL4501
IC4501
IC4502
QR4502
QR4501
L Ch REC PB LEV
VR4502
VR4505
VR4501
MUTE LEVEL
L Ch Fo
L4501
L4502
W3
B4501
PACK PIN
10
15
20
31
35
40
42

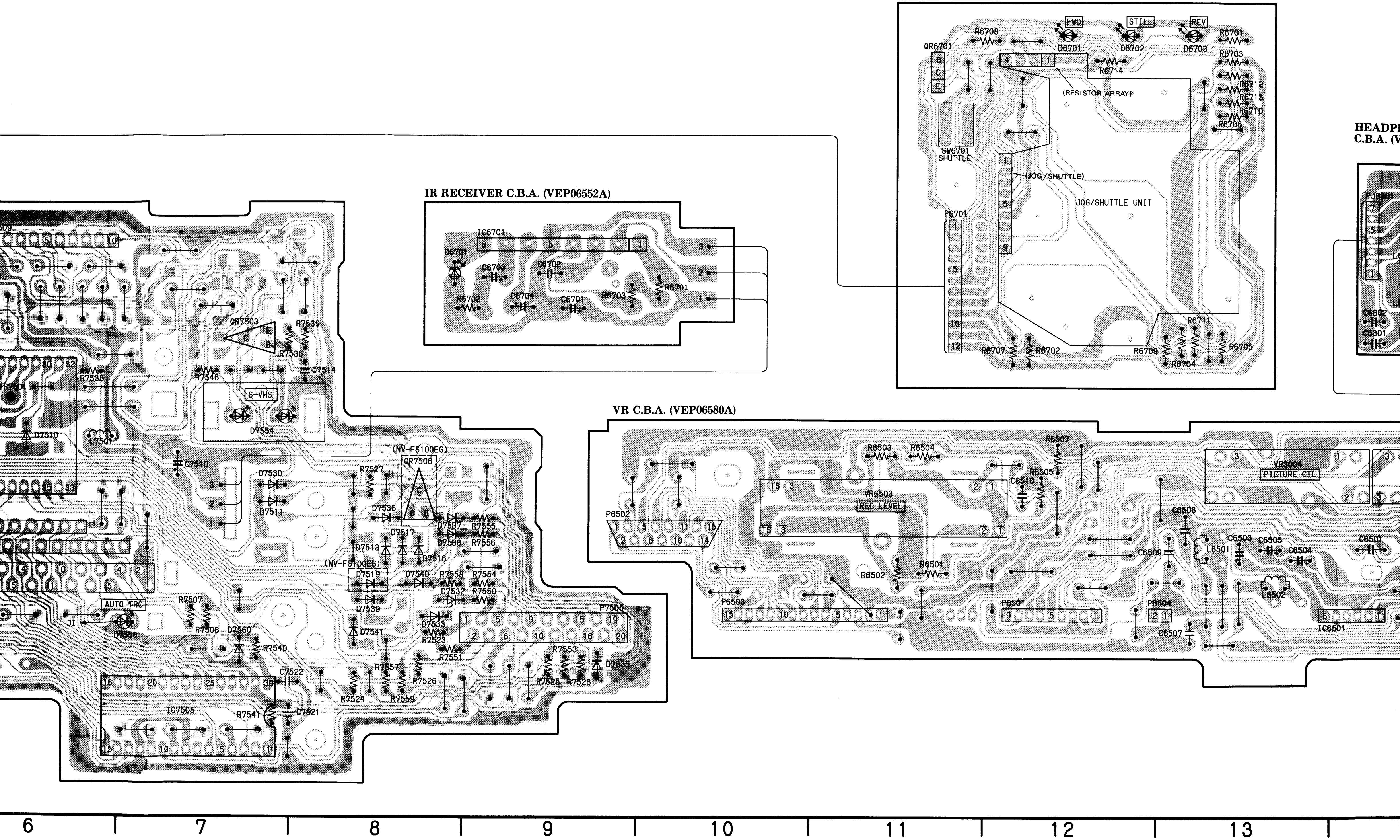
HI-FI AUDIO PACK C.B.A.	
Transistor	
Q4502 Q4503 Q4504	D-3 D-2 B-5
Transistor & Resistor	
QR4501 QR4502	B-1 C-1
Integrated Circuit	
IC4501 IC4502	B-3 B-4
Adjustment	
VR4501 VR4502 VR4505 VR4507 VR4509	A-4 A-4 A-4 D-5 D-5

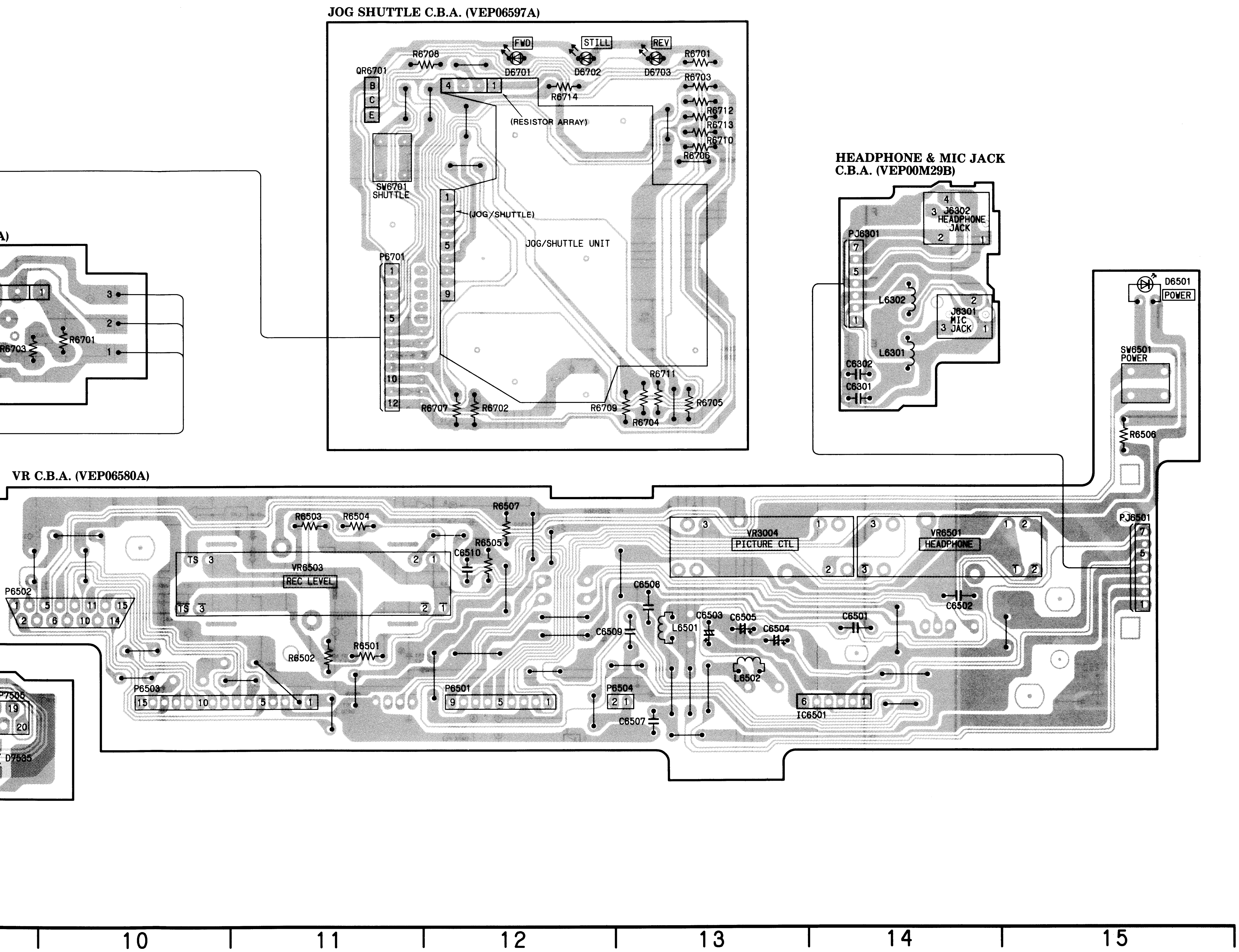
ADDRESS INFORMATION

Next Page:
TIMER & VR Section

3-30. TIMER C.B.A. (VEP07530A: NV-FS100EG) (VEP07530B: NV-FS100EI) & VR C.B.A. (VEP06580A)


TIMER C.B.A. (VEP07530A: NV-FS100EG) (VEP07530B: NV-FS100EI)
E
D
C
B
A
1
2
3
4
5
6
7
P7506
P7503
R7534
R7547
P7501
P7502
R7505
P7509
D7501
C7505
C7506
C7507
R7502
IC7503
(NV-FS100EI)
QR7503
R7539
R7536
C7514
R7546
S-VHS
D7554
TP7517
R7533
QR7501
D7550
STEREO
X7501
X7502
C7504
TP7519
R7530
R7511
IC7504
C7501
TIMER CLOCK
C7520
D7551
BILINGUAL
C7502
C7503
(NV-FS100EG)
R7538
TP7501
R7549
R7531
IC7502
Q7501
C7509
R7514
C7511
C7513
R7501
C7525
C7512
R7503
IC7501
D7504
D7510
D7507
L7501
C7510
P7507
TP7518
R7512
C7508
R7509
R7513
QR7502
R7532
R7510
D7553
SIMUL
D7530
D7511
R7504
D7534
R7552
RX7502
RX7501
DP7501
R7544
D7565
JI
P7504
(NV-FS100EG)
R7529
INSERT
D7555
A.DUB
D7557
RENUM
D7559
VASS
D7552
TEXT
D7562
R7560
(NV-FS100EG)
AUTO TRC
D7556
R7507
R7506
D7560
R7540
QR7505
QR7510
QR7511
R7542
C7524
C7523
R7543
C7522
IC7505
R7541
C7521

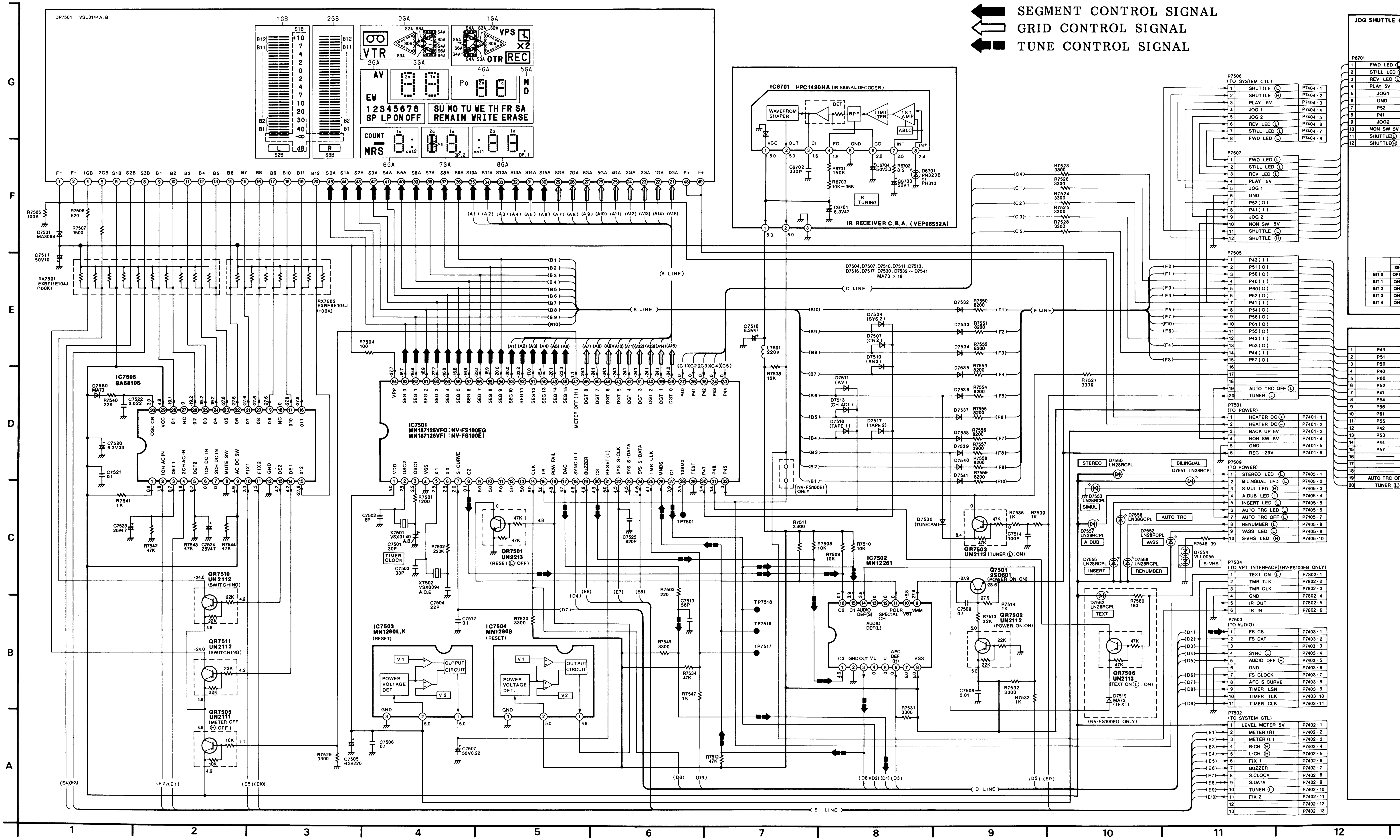

JOG SHUTTLE C.B.A. (VEP06597A)
QR6701
B
C
E
R6708
FWD
STILL
REV
D6701
D6702
D6703
R6701
R6703
R6714
(RESISTOR ARRAY)
R6712
R6713
R6710
R6706
SW6701
SHUTTLE
(JOG/SHUTTLE)
JOG/SHUTTLE UNIT
P6701
R6711
R6707
R6702
R6709
R6704
R6705
HEADP
C.B.A. (V
PJ6301
C6302
C6301
IR RECEIVER C.B.A. (VEP06552A)
IC6701
D6701
C6703
C6702
R6702
C6704
C6701
R6703
R6701
VR C.B.A. (VEP06580A)
R6507
R6503
R6504
R6505
C6510
VR6503
REC LEVEL
TS
VR3004
PICTURE CTL
P6502
C6508
C6503
C6505
C6504
C6501
C6509
L6501
R6502
R6501
L6502
P6503
P6501
P6504
C6507
IC6501
QR7503
R7539
R7536
C7514
R7538
R7546
S-VHS
D7554
TP7501
D7510
L7501
C7510
D7530
D7511
(NV-FS100EG)
QR7506
R7527
D7536
D7537
D7538
R7555
R7556
D7517
D7513
D7516
D7519
D7540
R7558
R7554
D7532
R7550
D7539
D7533
R7523
D7541
P7506
AUTO TRC
JI
D7556
R7507
R7506
D7560
R7540
R7551
R7553
D7535
R7557
R7526
C7522
R7524
R7559
R7525
R7528
IC7505
R7541
C7521
6
7
8
9
10
11
12
13


JOG SHUTTLE C.B.A. (VEP06597A)
HEADPHONE & MIC JACK C.B.A. (VEP00M29B)
VR C.B.A. (VEP06580A)
FWD
STILL
REV
D6701
D6702
D6703
R6708
R6701
R6703
R6714
R6712
R6713
R6710
R6706
QR6701
B
C
E
(RESISTOR ARRAY)
SW6701 SHUTTLE
(JOG/SHUTTLE)
JOG/SHUTTLE UNIT
P6701
R6707
R6702
R6709
R6704
R6711
R6705
PJ6301
J6302 HEADPHONE JACK
J6301 MIC JACK
L6302
L6301
C6302
C6301
D6501
POWER
SW6501 POWER
R6506
PJ6501
R6507
R6503
R6504
R6505
C6510
VR6503
REC LEVEL
VR3004
PICTURE CTL
VR6501
HEADPHONE
C6502
C6508
C6503
C6505
C6504
C6501
C6509
L6501
L6502
P6502
R6502
R6501
P6503
P6501
P6504
C6507
IC6501
P7505
D7535
R6703
R6701
10
11
12
13
14
15

TIMER & VR C.B.A.	
Transistor	
Q7501	C-2
Transistor & Resistor	
QR6701	E-11
QR7501	C-2
QR7502	B-2
QR7503	C-7
QR7505	A-4
QR7506	C-8
QR7510	A-4
QR7511	A-5
Integrated Circuit	
IC6501	B-14
IC6701	D-9
IC7501	C-5
IC7502	C-2
IC7503	C-5
IC7504	C-2
IC7505	A-7
Test Point	
TP7501	C-6
TP7517	C-2
TP7518	B-2
TP7519	C-2
Adjustment	
C7501	C-3
VR3004	C-13
VR6501	C-14
VR6503	B-11
Connector	
P6501	B-12
P6502	B-9
P6503	B-10
P6504	B-13
P6701	D-11
P7501	D-4
P7502	D-5
P7503	D-2
P7504	A-3
P7505	B-9
P7506	D-1
P7507	C-1
P7509	D-6
PJ6301	D-14
PJ6501	C-15

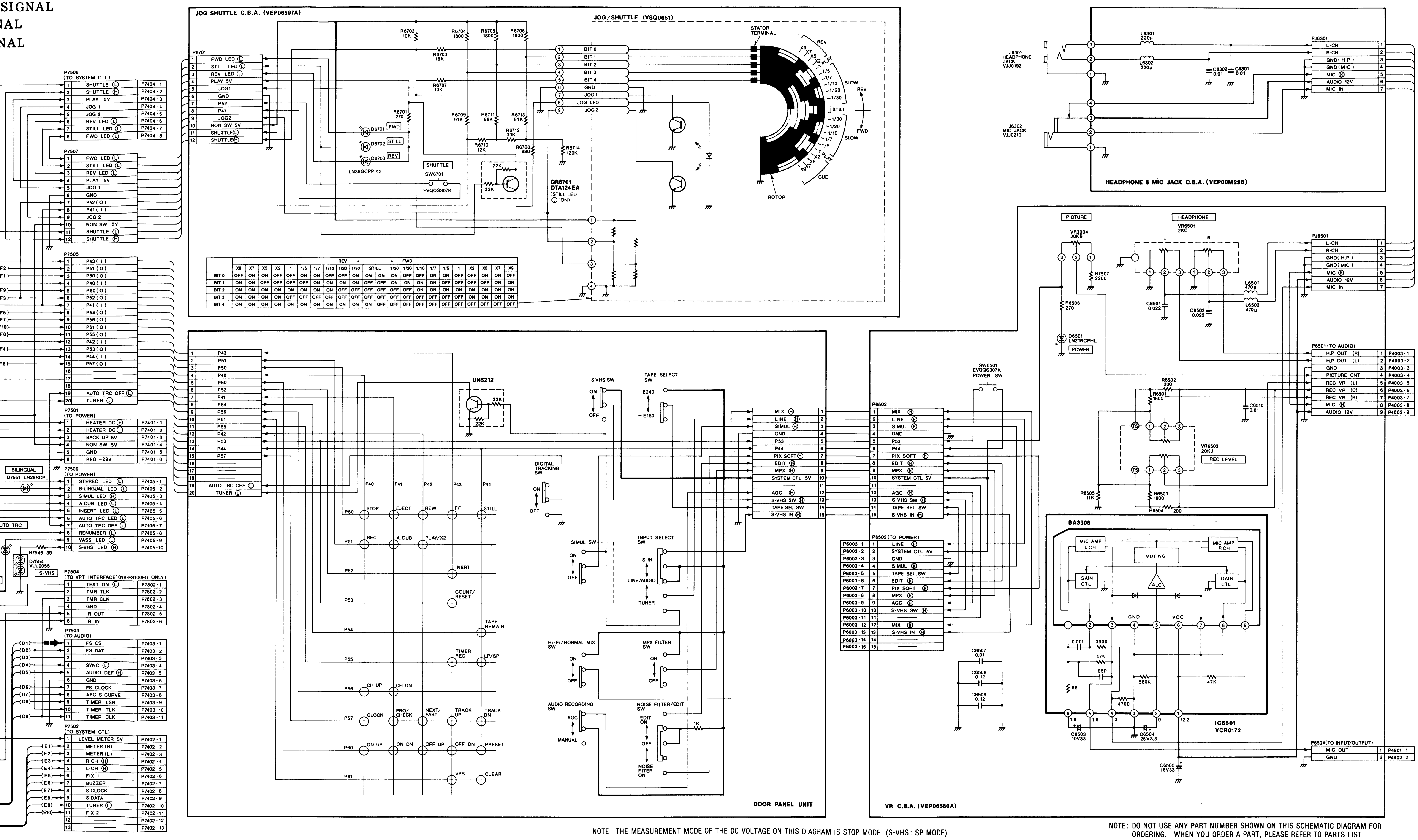
ADDRESS INFORMATION

3-31. TIMER & VR SCHEMATIC DIAGRAM



SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
DP7501 VSL0144A,B
VTR
VPS
OTR
REC
AV
EW
12345678
SU MO TU WE TH FR SA
SP LP ON OFF
REMAIN WRITE ERASE
COUNT
MRS
IC6701 μPC1490HA (IR SIGNAL DECODER)
WAVEFROM SHAPER
DET
BPF
LIMITER
1ST AMP
ABLC
IR TUNING
IR RECEIVER C.B.A. (VEP06552A)
JOG SHUTTLE
P6701
P7506 (TO SYSTEM CTL)
P7507
P7505
P7501 (TO POWER)
P7509 (TO POWER)
P7504 (TO VPT INTERFACE)(NV-FS100EG ONLY)
P7503 (TO AUDIO)
P7502 (TO SYSTEM CTL)
IC7505 BA6810S
IC7501 MN187125VFQ : NV-FS100EG
MN187125VFI : NV-FS100E I
IC7502 MN12261
IC7503 MN1280L,K (RESET)
IC7504 MN1280S (RESET)
POWER VOLTAGE DET.
OUTPUT CIRCUIT
QR7501 UN2213 (RESET Ⓛ : OFF)
QR7510 UN2112 (SWITCHING)
QR7511 UN2112 (SWITCHING)
QR7505 UN2111 (METER OFF Ⓗ : OFF)
QR7503 UN2113 (TUNER Ⓛ : ON)
Q7501 2SD601 (POWER ON : ON)
QR7502 UN2112 (POWER ON : ON)
QR7506 UN2113 (TEXT ON Ⓛ : ON)
X7501 VSX0140 A,B
X7502 VSX0094 A,C,E
TIMER CLOCK
RX7501 EXBF11E104J (100K)
RX7502 EXBF8E104J (100K)
D7504, D7507, D7510, D7511, D7513, D7516, D7517, D7530, D7532 ~ D7541 MA73 × 18
A LINE
B LINE
C LINE
D LINE
E LINE
F LINE
STEREO
BILINGUAL
SIMUL
A.DUB
INSERT
AUTO TRC
VASS
RENUMBER
S-VHS
TEXT
(NV-FS100EG ONLY)
(NV-FS100E I ONLY)
TP7501
TP7517
TP7518
TP7519
A B C D E F G
1 2 3 4 5 6 7 8 9 10 11 12

SIGNAL
NAL
NAL


JOG SHUTTLE C.B.A. (VEP06597A)
JOG/SHUTTLE (VSQ0651)
STATOR TERMINAL
ROTOR
REV
FWD
SLOW
STILL
CUE
PLAY
P6701
FWD LED Ⓛ
STILL LED Ⓛ
REV LED Ⓛ
PLAY 5V
JOG1
GND
P52
P41
JOG2
NON SW 5V
SHUTTLEⓁ
SHUTTLEⒽ
BIT 0
BIT 1
BIT 2
BIT 3
BIT 4
JOG 1
JOG LED
JOG 2
D6701 FWD
D6702 STILL
D6703 REV
LN38GCPP ×3
SHUTTLE
SW6701
EVQQS307K
QR6701
DTA124EA
(STILL LED Ⓛ: ON)
P7506 (TO SYSTEM CTL)
P7507
P7505
P7501 (TO POWER)
P7509 (TO POWER)
P7504 (TO VPT INTERFACE)(NV-FS100EG ONLY)
P7503 (TO AUDIO)
P7502 (TO SYSTEM CTL)
BILINGUAL
D7551 LN28RCPL
D7554 VLL0055
S-VHS
R7546 39
UN5212
S-VHS SW
TAPE SELECT SW
DIGITAL TRACKING SW
SIMUL SW
INPUT SELECT SW
S.IN
LINE/AUDIO
TUNER
Hi-Fi/NORMAL MIX SW
MPX FILTER SW
AUDIO RECORDING SW
AGC
MANUAL
NOISE FILTER/EDIT SW
EDIT ON
OFF
NOISE FILTER ON
STOP
EJECT
REW
FF
STILL
REC
A.DUB
PLAY/X2
INSRT
COUNT/RESET
TAPE REMAIN
TIMER REC
LP/SP
CH UP
CH DN
CLOCK
PRO/CHECK
NEXT/FAST
TRACK UP
TRACK DN
ON UP
ON DN
OFF UP
OFF DN
PRESET
VPS
CLEAR
DOOR PANEL UNIT
HEADPHONE & MIC JACK C.B.A. (VEP00M29B)
J6301 HEADPHONE JACK VJJ0192
J6302 MIC JACK VJJ0210
PJ6301
L-CH
R-CH
GND (H.P)
GND (MIC)
MIC Ⓡ
AUDIO 12V
MIC IN
PICTURE
HEADPHONE
VR3004 20KB
VR6501 2KC
D6501 LN21RCPHL
POWER
SW6501 EVQQS307K POWER SW
VR6503 20KJ
REC LEVEL
PJ6501
P6501 (TO AUDIO)
H.P OUT (R)
H.P OUT (L)
PICTURE CNT
REC VR (L)
REC VR (C)
REC VR (R)
MIC Ⓗ
P6502
MIX Ⓗ
LINE Ⓗ
SIMUL Ⓗ
P53
P44
PIX SOFT Ⓗ
EDIT Ⓗ
MPX Ⓗ
SYSTEM CTL 5V
AGC Ⓗ
S-VHS SW Ⓗ
TAPE SEL.SW
S-VHS IN Ⓗ
P6503 (TO POWER)
BA3308
MIC AMP L CH
MIC AMP R CH
MUTING
GAIN CTL
ALC
GND
VCC
IC6501
VCR0172
P6504 (TO INPUT/OUTPUT)
MIC OUT
VR C.B.A. (VEP08580A)

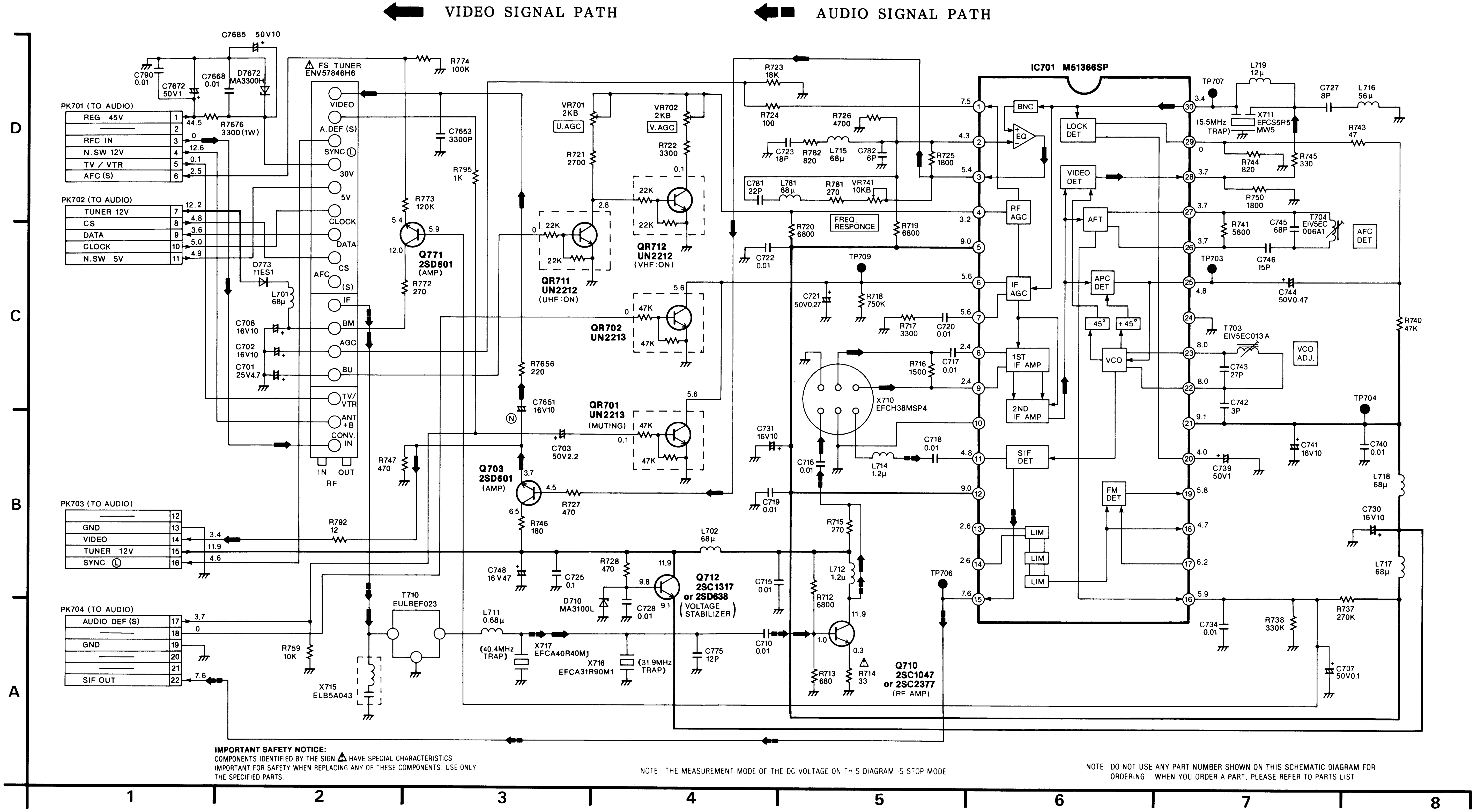
	REV ←										→ FWD											
	X9	X7	X5	X2	1	1/5	1/7	1/10	1/20	1/30	STILL		1/30	1/20	1/10	1/7	1/5	1	X2	X5	X7	X9
BIT 0	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF
BIT 1	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON
BIT 2	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
BIT 3	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON
BIT 4	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

11 12 13 14 15 16 17 18 19 20 21 22

3-32. TV DEMODULATOR PACK SCHEMATIC DIAGRAM


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
PK701 (TO AUDIO)
REG 45V
RFC IN
N.SW 12V
TV / VTR
AFC (S)
PK702 (TO AUDIO)
TUNER 12V
CS
DATA
CLOCK
N.SW 5V
PK703 (TO AUDIO)
GND
VIDEO
TUNER 12V
SYNC Ⓛ
PK704 (TO AUDIO)
AUDIO DEF (S)
GND
SIF OUT
C7685 50V10
C790 0.01
C7672 50V1
C7668 0.01
D7672 MA3300H
R7676 3300 (1W)
⚠ FS TUNER ENV57846H6
VIDEO
A.DEF (S)
SYNC Ⓛ
30V
5V
CLOCK
DATA
CS
AFC (S)
IF
BM
AGC
BU
TV/VTR
ANT +B
CONV. IN
IN OUT RF
D773 11ES1
L701 68μ
C708 16V10
C702 16V10
C701 25V4.7
R774 100K
C7653 3300P
R795 1K
R773 120K
Q771 2SD601 (AMP)
R772 270
R7656 220
C7651 16V10
C703 50V2.2
R747 470
Q703 2SD601 (AMP)
R727 470
R746 180
R792 12
R759 10K
T710 EULBEF023
X715 ELB5A043
VR701 2KB
U.AGC
R721 2700
QR711 UN2212 (UHF:ON)
VR702 2KB
V.AGC
R722 3300
QR712 UN2212 (VHF:ON)
QR702 UN2213
QR701 UN2213 (MUTING)
22K
47K
C748 16V47
C725 0.1
R728 470
D710 MA3100L
C728 0.01
Q712 2SC1317 or 2SD638 (VOLTAGE STABILIZER)
L711 0.68μ
(40.4MHz TRAP)
X717 EFCA40R40MJ
X716 EFCA31R90M1
(31.9MHz TRAP)
C775 12P
L702 68μ
C715 0.01
C710 0.01
R712 6800
L712 1.2μ
R715 270
R713 680
⚠ R714 33
Q710 2SC1047 or 2SC2377 (RF AMP)
R723 18K
R724 100
R726 4700
C723 18P
R782 820
L715 68μ
C782 6P
R725 1800
C781 22P
L781 68μ
R781 270
VR741 10KB
FREQ. RESPONCE
R720 6800
R719 6800
C722 0.01
TP709
C721 50V0.27
R718 750K
R717 3300
C720 0.01
R716 1500
C717 0.01
X710 EFCH38MSP4
C731 16V10
C716 0.01
L714 1.2μ
C718 0.01
C719 0.01
TP706
IC701 M51366SP
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
AFT
IF AGC
APC DET
-45°
+45°
VCO
1ST IF AMP
2ND IF AMP
SIF DET
FM DET
LIM
TP707
L719 12μ
X711 EFCS5R5MW5
(5.5MHz TRAP)
C727 8P
L716 56μ
R743 47
R744 820
R745 330
R750 1800
R741 5600
C745 68P
T704 EIV5EC006A1
AFC DET
TP703
C746 15P
C744 50V0.47
T703 EIV5EC013A
VCO ADJ.
C743 27P
C742 3P
R740 47K
TP704
C741 16V10
C740 0.01
C739 50V1
L718 68μ
C730 16V10
L717 68μ
R737 270K
R738 330K
C734 0.01
C707 50V0.1
D
C
B
A
1
2
3
4
5
6
7
8

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

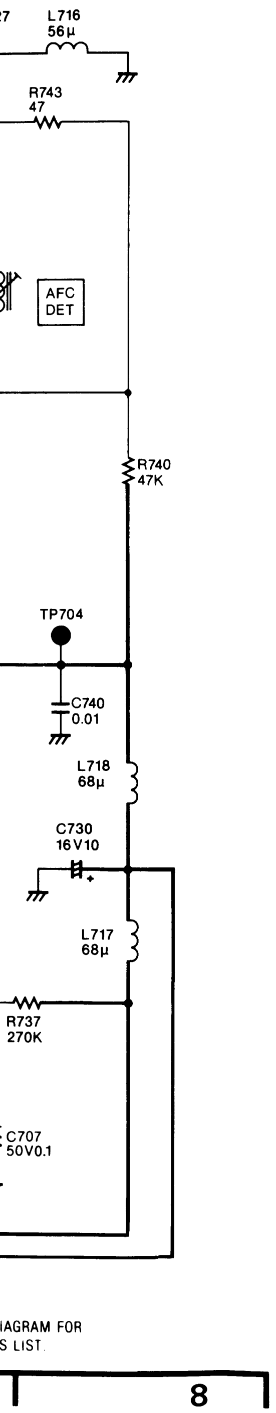
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST

Back Page:
TIMER & VR Section

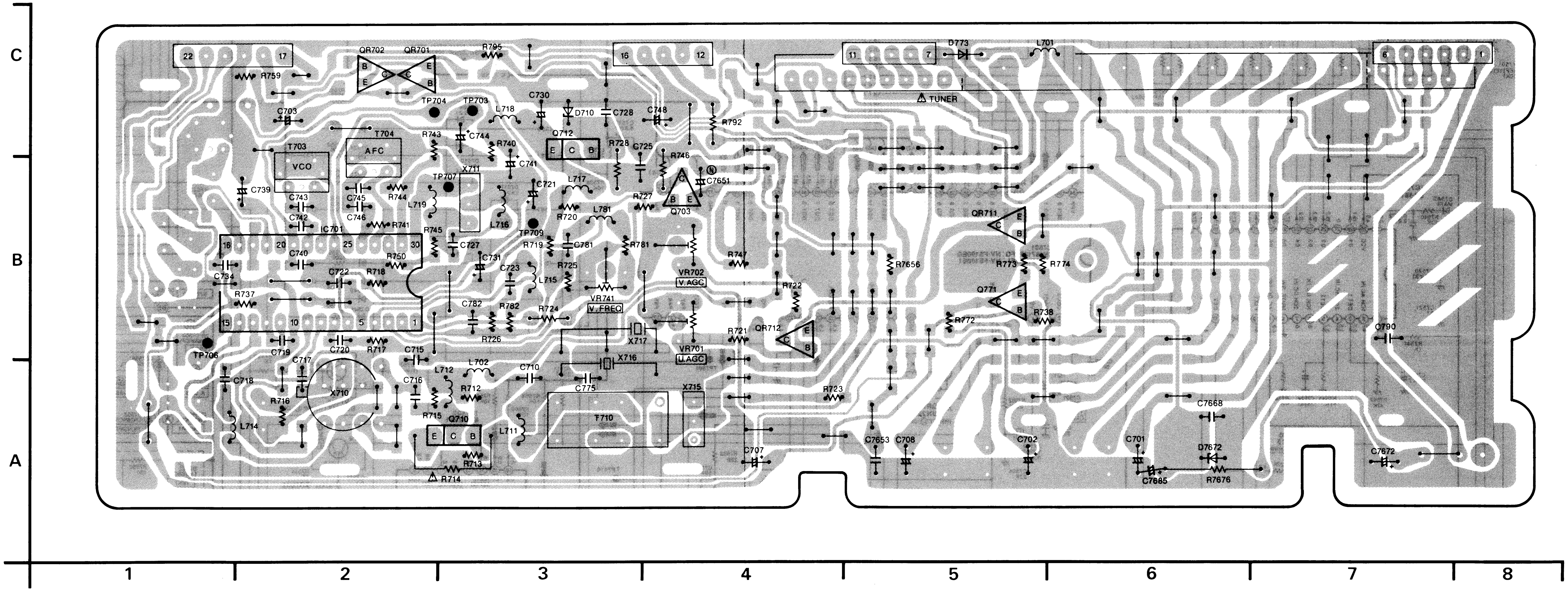
3-33. TV DEMODULATOR PACK C.B.A. (VEP07536K)

TV DEMODULATOR PACK C.B.A.			
Transistor		**Test Point**	
Q703	B-4	TP703	C-3
Q710	A-3	TP704	C-2
Q712	C-3	TP706	B-1
Q771	B-5	TP707	B-3
Transistor & Resistor		TP709	B-3
QR701	C-2	**Adjustment**	
QR702	C-2	T703	C-2
QR711	B-5	T704	C-2
QR712	B-4	VR701	B-4
Integrated Circuit		VR702	B-4
IC701	B-2	VR741	B-3

ADDRESS INFORMATION

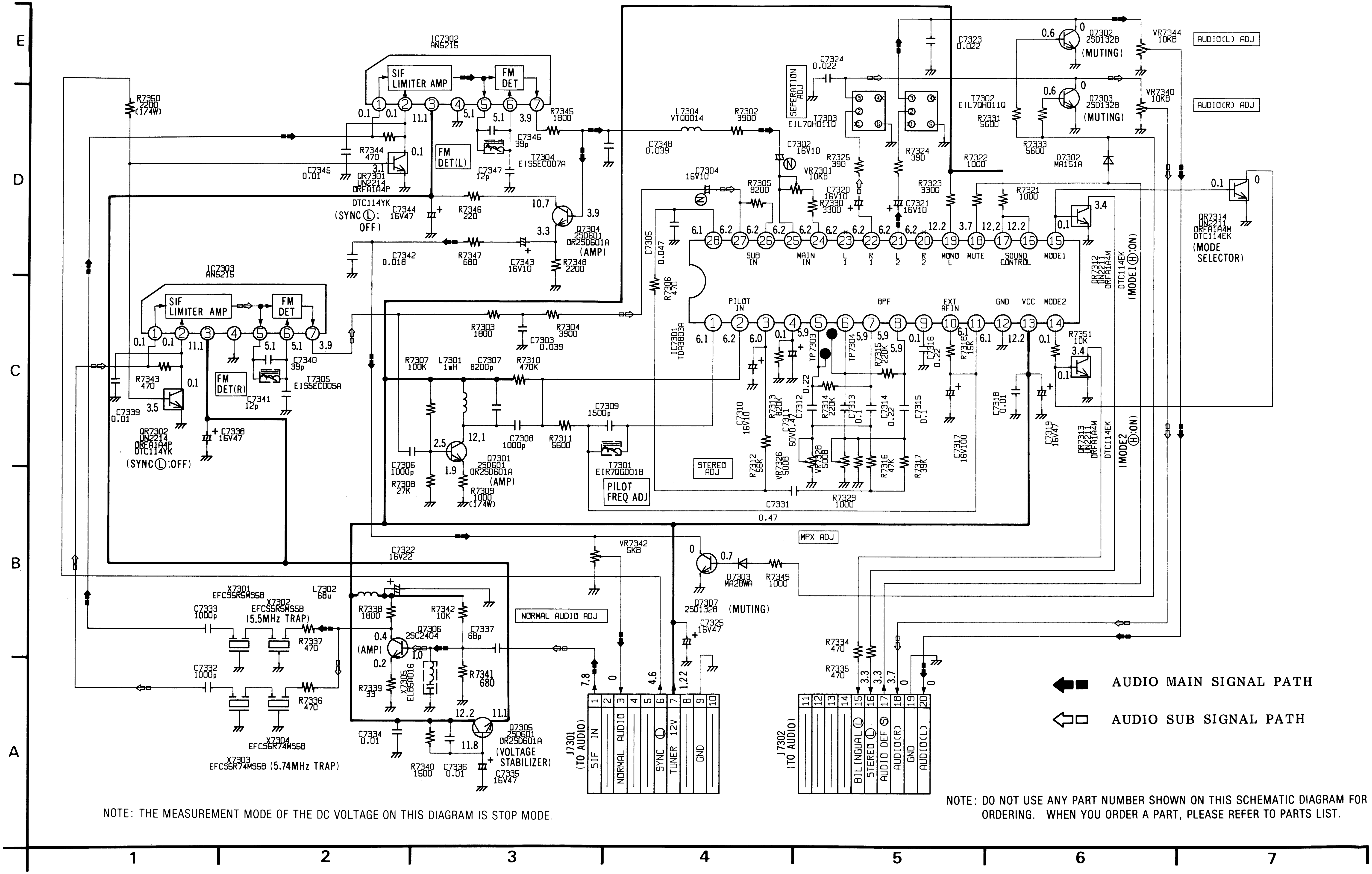


L716
56µ
R743
47
AFC DET
R740
47K
TP704
C740
0.01
L718
68µ
C730
16V10
L717
68µ
R737
270K
C707
50V0.1
IAGRAM FOR
S LIST
8



C
B
A
1
2
3
4
5
6
7
8
22
17
16
12
11
7
6
1
QR702
QR701
R795
D773
L701
R759
TP704
TP703
C730
L718
D710
C728
C748
R792
TUNER
C703
T704
T703
VCO
AFC
R743
C744
R740
C741
Q712
R728
C725
R746
C7651
C739
C743
C745
R744
X711
TP707
L719
C721
L717
L781
R727
Q703
C742
C746
R741
IC701
R745
L716
R720
TP709
QR711
C740
R750
C727
C731
R719
C781
R781
R747
R7656
R773
R774
C734
C722
R718
C723
L715
R725
VR702
V.AGC
R722
Q771
R737
C782
R782
R724
VR741
V.FREQ
R772
R738
15
10
5
1
16
20
25
30
TP706
C719
C720
R717
C715
R726
X717
R721
QR712
C790
C717
C718
X710
C716
L712
L702
C710
X716
VR701
U.AGC
R712
C775
X715
R723
R716
L714
R715
Q710
T710
L711
C7668
C707
C7653
C708
C702
C701
D7672
C7672
R713
R714
C7665
R7676

3-34. DECODER PACK SCHEMATIC DIAGRAM


E
D
C
B
A
1
2
3
4
5
6
7
IC7302 AN5215
SIF LIMITER AMP
FM DET
IC7303 AN5215
FM DET(L)
FM DET(R)
R7350 2200 (1/4W)
R7344 470
R7345 1800
C7346 39p
C7347 12p
C7345 0.01
C7348 0.039
T7304 EISSEC007A
QR7301 UN2214 QRFA1A4P DTC114YK
(SYNC Ⓛ: OFF)
C7344 16V47
R7346 220
Q7304 2SD601 QR2SD601A (AMP)
C7342 0.018
R7347 680
C7343 16V10
R7348 2200
R7343 470
C7339 0.01
QR7302 UN2214 QRFA1A4P DTC114YK
(SYNC Ⓛ:OFF)
C7340 39p
T7305 EISSEC005A
C7341 12p
C7338 16V47
L7304 VTQ0014
R7302 3900
C7302 16V10
C7304 16V10
R7305 8200
VR7301 10KB
R7325 390
C7320 16V10
R7330 3300
R7324 390
C7321 16V10
C7324 0.022
SEPERATION ADJ
T7303 EIL7QH011Q
C7323 0.022
T7302 EIL7QH011Q
R7331 5600
R7333 5600
R7322 1000
R7323 3300
R7321 1000
D7302 MA151A
Q7302 2SD1328 (MUTING)
Q7303 2SD1328 (MUTING)
VR7344 10KB
VR7340 10KB
AUDIO(L) ADJ
AUDIO(R) ADJ
QR7314 UN2211 QRFA1A4M DTC114EK
(MODE SELECTOR)
QR7312 UN2211 QRFA1A4M DTC114EK (MODE1 Ⓗ:ON)
QR7313 UN2211 QRFA1A4M DTC114EK (MODE2 Ⓗ:ON)
IC7301 TDA3803A
SUB IN
MAIN IN
L 1
R 1
L 2
R 2
MONO L
MUTE
SOUND CONTROL
MODE1
PILOT IN
BPF
EXT AFIN
GND
VCC
MODE2
C7305 0.047
R7306 470
R7303 1800
R7304 3900
C7303 0.039
R7307 100K
L7301 1mH
C7307 8200p
R7310 470K
C7309 1500p
C7308 1000p
R7311 5600
T7301 EIR7QG001B
PILOT FREQ ADJ
Q7301 2SD601 QR2SD601A (AMP)
C7306 1000p
R7308 27K
R7309 1000 (1/4W)
C7310 16V10
R7313 820K
C7311 50V0.47
C7312 0.22
R7314 220K
C7313 0.1
C7314 0.22
C7315 0.1
R7315 220K
C7316 0.22
R7318 15K
C7317 16V100
C7318 0.01
C7319 16V47
R7351 10K
TP7303
TP7304
R7312 56K
VR7326 500B
VR7328 500B
R7316 47K
R7317 39K
STEREO ADJ
C7331 0.47
R7329 1000
MPX ADJ
C7322 16V22
VR7342 5KB
Q7307 2SD1328 (MUTING)
D7303 MA28WA
R7349 1000
C7325 16V47
X7301 EFCS5R5MS5B
X7302 EFCS5R5MS5B
(5.5MHz TRAP)
L7302 68u
C7333 1000p
R7337 470
C7332 1000p
R7336 470
X7304 EFCS5R74MS5B
X7303 EFCS5R74MS5B (5.74MHz TRAP)
R7338 1800
R7342 10K
Q7306 2SC2404
(AMP)
C7337 68p
X7305 ELBSA016
R7341 680
R7339 33
C7334 0.01
Q7305 2SD601 QR2SD601A
(VOLTAGE STABILIZER)
R7340 1500
C7336 0.01
C7335 16V47
NORMAL AUDIO ADJ
J7301 (TO AUDIO)
SIF IN
NORMAL AUDIO
SYNC Ⓛ
TUNER 12V
GND
J7302 (TO AUDIO)
BILINGUAL Ⓛ
STEREO Ⓛ
AUDIO DEF Ⓢ
AUDIO(R)
GND
AUDIO(L)
R7334 470
R7335 470

AUDIO MAIN SIGNAL PATH

AUDIO SUB SIGNAL PATH

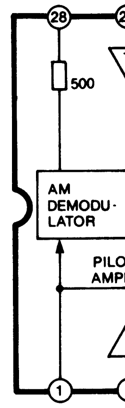
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

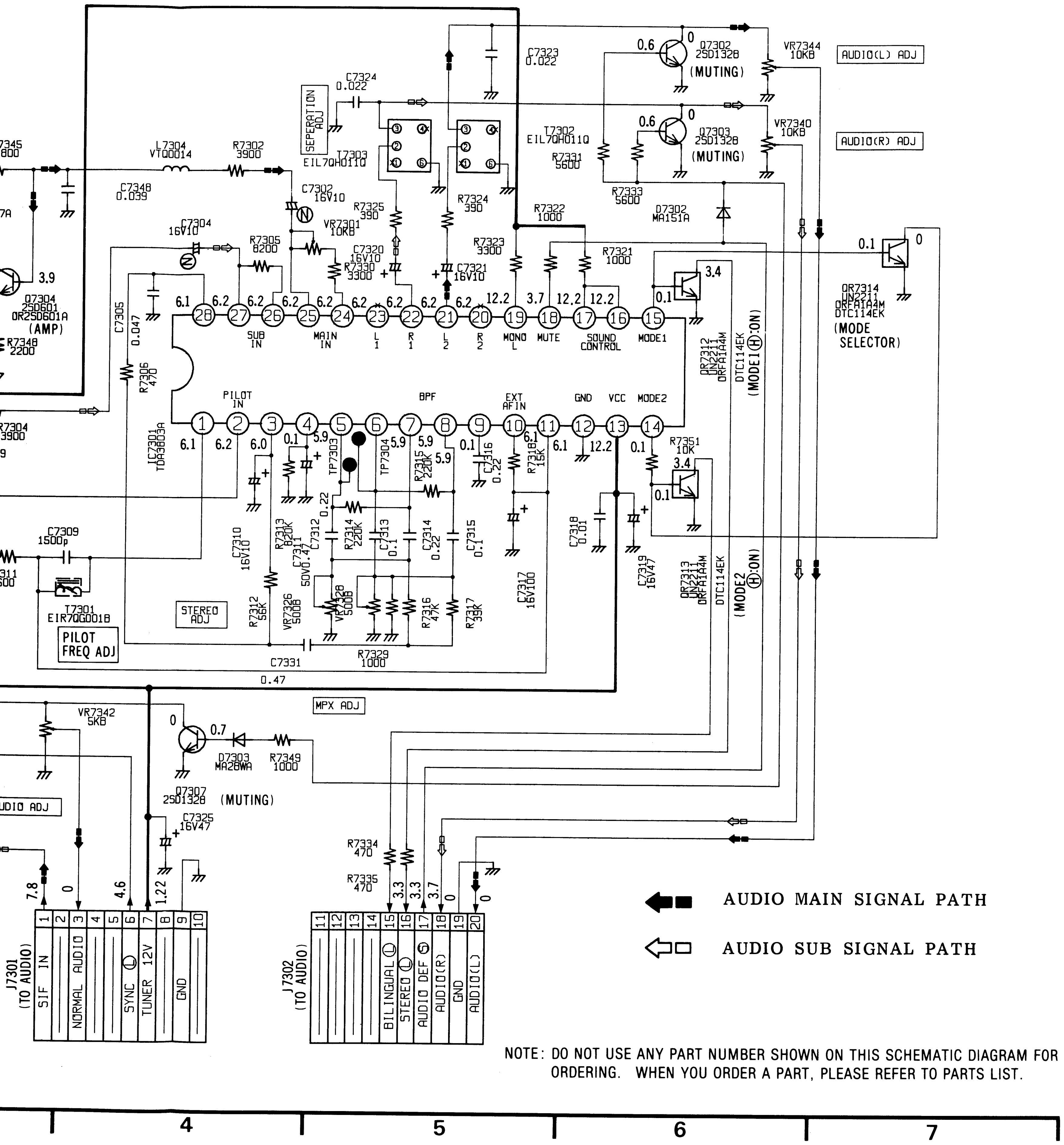
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-35. D

IC BL

IC7301 (T

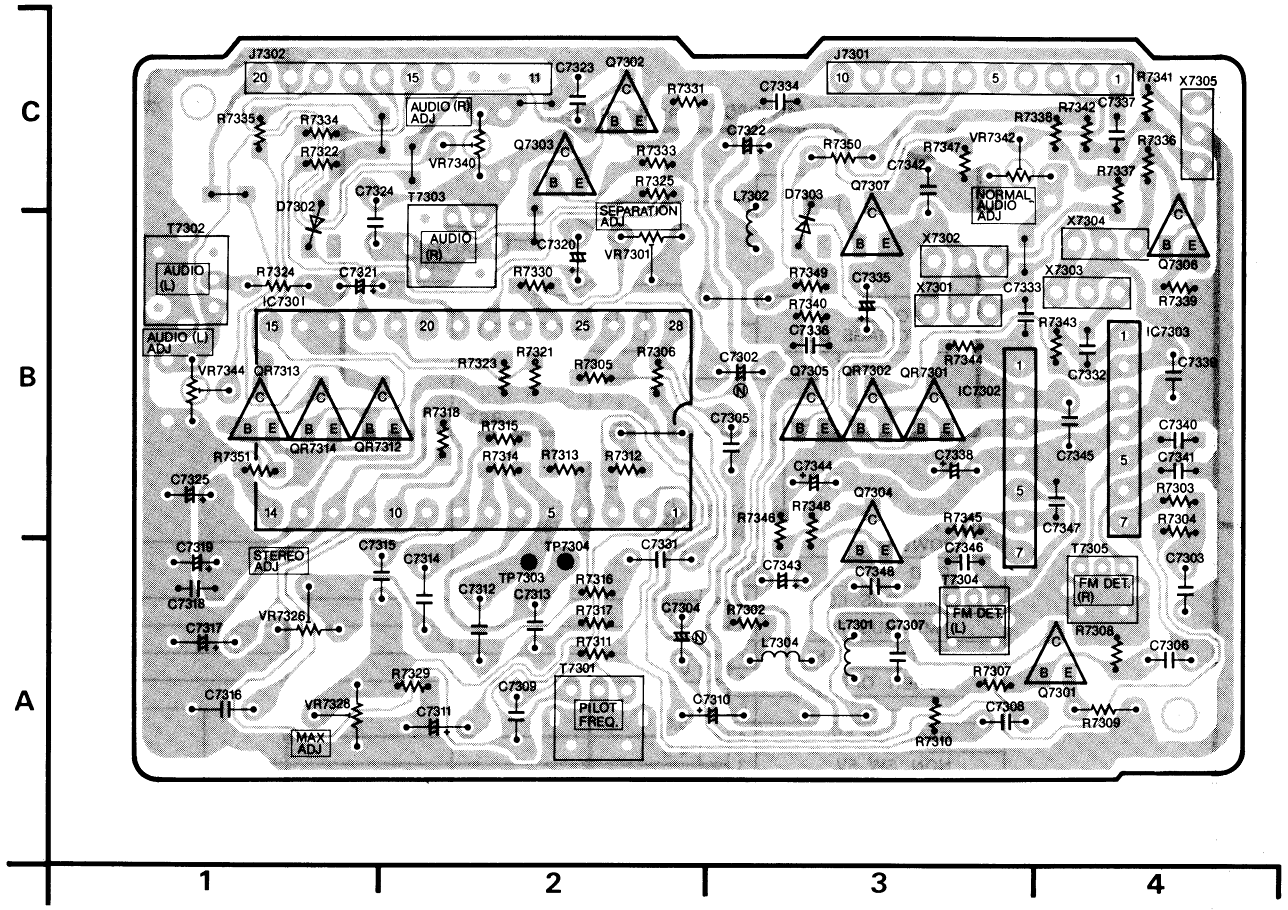

500
AM DEMODU-LATOR
PILO AMP



C7323 0.022
C7324 0.022
SEPERATION ADJ
T7303 EIL70H0110
T7302 EIL70H0110
Q7302 2SD1328 (MUTING)
Q7303 2SD1328 (MUTING)
VR7344 10KB
VR7340 10KB
AUDIO(L) ADJ
AUDIO(R) ADJ
L7304 VTQ0014
R7302 3900
C7348 0.039
C7302 16V10
VR7301 10KB
R7325 390
R7324 390
R7333 5600
R7331 5600
R7322 1000
D7302 MA151A
R7323 3300
R7321 1000
C7320 16V10
R7330 3300
C7321 16V10
C7304 16V10
R7305 8200
Q7304 2SD601 QR2SD601A (AMP)
R7348 2200
QR7314 UN2211 DRFA1A4M DTC114EK (MODE SELECTOR)
QR7312 UN2211 DRFA1A4M DTC114EK (MODE1 H:ON)
QR7313 UN2211 DRFA1A4M DTC114EK (MODE2 H:ON)
SUB IN
MAIN IN
MONO L
MUTE
SOUND CONTROL
MODE1
PILOT IN
BPF
EXT AF IN
GND
VCC
MODE2
IC7301 TDA3803A
C7305 0.047
R7306 470
TP7303
TP7304
R7315 220K
C7316 0.22
R7318 15K
R7351 10K
C7309 1500p
T7301 EIR70G0018
PILOT FREQ ADJ
STEREO ADJ
C7310 16V10
R7313 820K
C7311 50V0.47
C7312 0.22
R7314 220K
C7313 0.1
C7314 0.22
C7315 0.1
C7318 0.01
C7317 16V100
C7319 16V47
R7312 56K
VR7326 500B
VR7328 500B
R7316 47K
R7317 39K
C7331 0.47
R7329 1000
MPX ADJ
VR7342 5KB
D7303 MA28WA
R7349 1000
Q7307 2SD1328 (MUTING)
C7325 16V47
R7334 470
R7335 470
J7301 (TO AUDIO)
SIF IN
NORMAL AUDIO
SYNC L
TUNER 12V
GND
J7302 (TO AUDIO)
BILINGUAL L
STEREO L
AUDIO DEF
AUDIO(R)
GND
AUDIO(L)
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
4
5
6
7

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

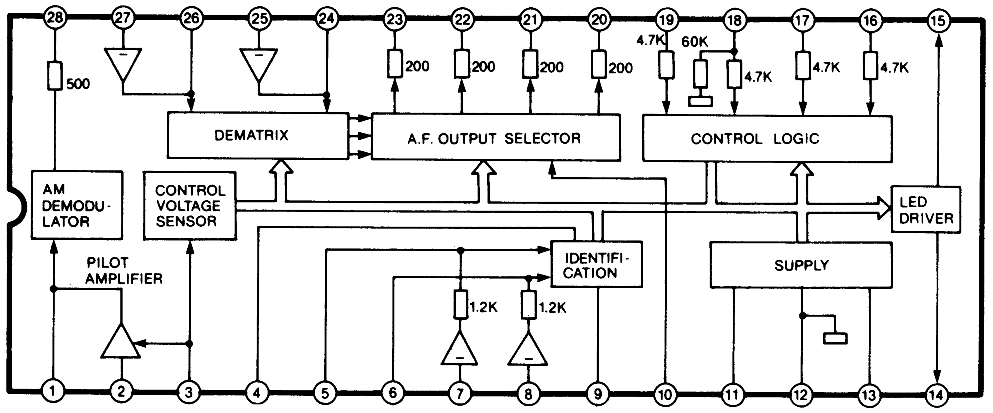
3-35. DECODER PACK C.B.A. (VEP07537A)



C
B
A
1
2
3
4
J7302
J7301
IC7301
IC7302
IC7303
AUDIO (R) ADJ
AUDIO (L) ADJ
SEPARATION ADJ
NORMAL AUDIO ADJ
STEREO ADJ
PILOT FREQ.
MAX ADJ
FM DET (R)
FM DET (L)

IC BLOCK

IC7301 (TDA3803A)



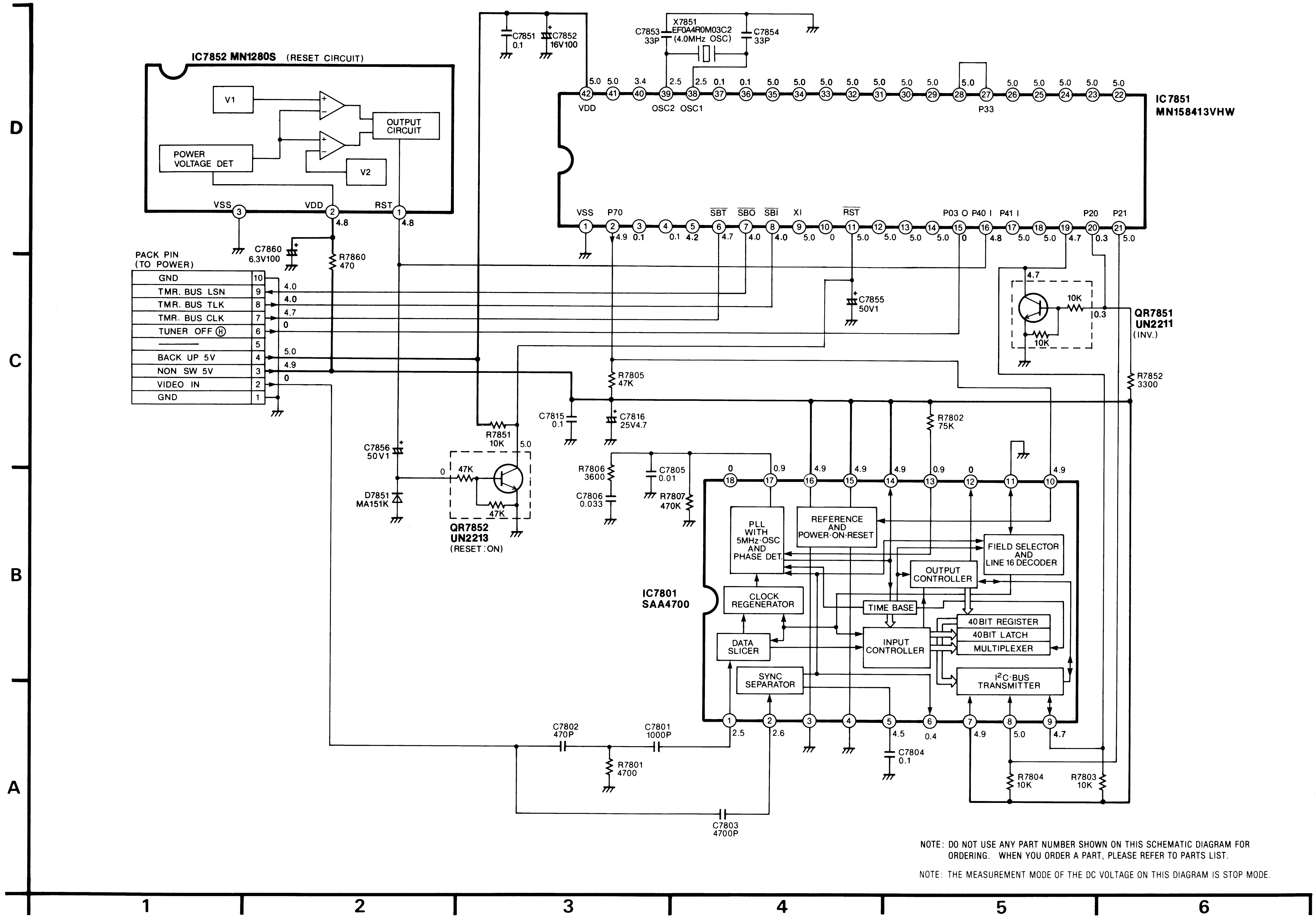
500
200
4.7K
60K
1.2K
DEMATRIX
A.F. OUTPUT SELECTOR
CONTROL LOGIC
AM DEMODU-LATOR
CONTROL VOLTAGE SENSOR
PILOT AMPLIFIER
IDENTIFI-CATION
SUPPLY
LED DRIVER

DECODER PACK C.B.A.	
Transistor	
Q7301	A-4
Q7302	C-2
Q7303	C-2
Q7304	B-3
Q7305	B-3
Q7306	B-4
Q7307	C-3
Transistor & Resistor	
QR7301	B-3
QR7302	B-3
QR7312	B-1
QR7313	B-1
QR7314	B-1
Integrated Circuit	
IC7301	B-1
IC7302	B-3
IC7303	B-4
Test Point	
TP7303	A-2
TP7304	A-2
Adjustment	
T7301	A-2
T7302	B-1
T7303	C-2
T7304	A-3
T7305	A-4
VR7301	B-2
VR7326	A-1
VR7328	A-1
VR7340	C-2
VR7342	C-3
VR7344	B-1

ADDRESS INFORMATION

Next Page:
VPS PACK Section

3-36. VPS PACK SCHEMATIC DIAGRAM

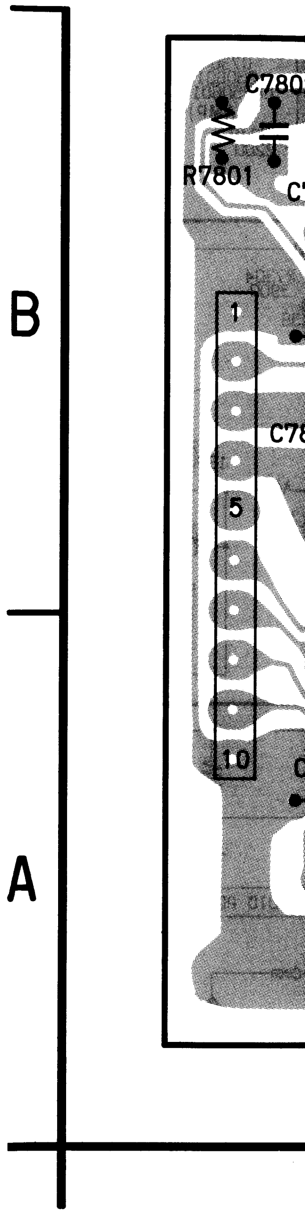


D
C
B
A
1
2
3
4
5
6
IC7852 MN1280S (RESET CIRCUIT)
V1
V2
POWER VOLTAGE DET
OUTPUT CIRCUIT
VSS 3
VDD 2 4.8
RST 1 4.8
C7860 6.3V100
R7860 470
PACK PIN (TO POWER)
10 GND
9 TMR. BUS LSN 4.0
8 TMR. BUS TLK 4.0
7 TMR. BUS CLK 4.7
6 TUNER OFF Ⓗ 0
5 ———
4 BACK UP 5V 5.0
3 NON SW 5V 4.9
2 VIDEO IN 0
1 GND
C7851 0.1
C7852 16V100
C7853 33P
C7854 33P
X7851 EF0A4R0M03C2 (4.0MHz OSC)
IC7851 MN158413VHW
42 VDD 5.0
41 5.0
40 3.4
39 OSC2 2.5
38 OSC1 2.5
37 0.1
36 0.1
35 5.0
34 5.0
33 5.0
32 5.0
31 5.0
30 5.0
29 5.0
28 5.0
27 P33
26 5.0
25 5.0
24 5.0
23 5.0
22 5.0
1 VSS
2 P70 4.9
3 0.1
4 0.1
5 4.2
6 SBT 4.7
7 SBO 4.0
8 SBI 4.0
9 XI 5.0
10 0
11 RST 5.0
12 5.0
13 5.0
14 5.0
15 P03 O 0
16 P40 I 4.8
17 P41 I 5.0
18 5.0
19 4.7
20 P20 0.3
21 P21 5.0
C7855 50V1
QR7851 UN2211 (INV.)
4.7
10K
10K
0.3
R7852 3300
R7805 47K
C7815 0.1
C7816 25V4.7
R7851 10K
5.0
C7856 50V1
D7851 MA151K
0
47K
47K
QR7852 UN2213 (RESET : ON)
R7806 3600
C7805 0.01
C7806 0.033
R7807 470K
R7802 75K
IC7801 SAA4700
18 0
17 0.9
16 4.9
15 4.9
14 4.9
13 0.9
12 0
11
10 4.9
PLL WITH 5MHz-OSC AND PHASE DET.
REFERENCE AND POWER-ON-RESET
FIELD SELECTOR AND LINE 16 DECODER
OUTPUT CONTROLLER
CLOCK REGENERATOR
TIME BASE
40 BIT REGISTER
40 BIT LATCH
MULTIPLEXER
DATA SLICER
INPUT CONTROLLER
SYNC SEPARATOR
I²C-BUS TRANSMITTER
1 2.5
2 2.6
3
4
5 4.5
6 0.4
7 4.9
8 5.0
9 4.7
C7804 0.1
C7802 470P
C7801 1000P
R7801 4700
C7803 4700P
R7804 10K
R7803 10K

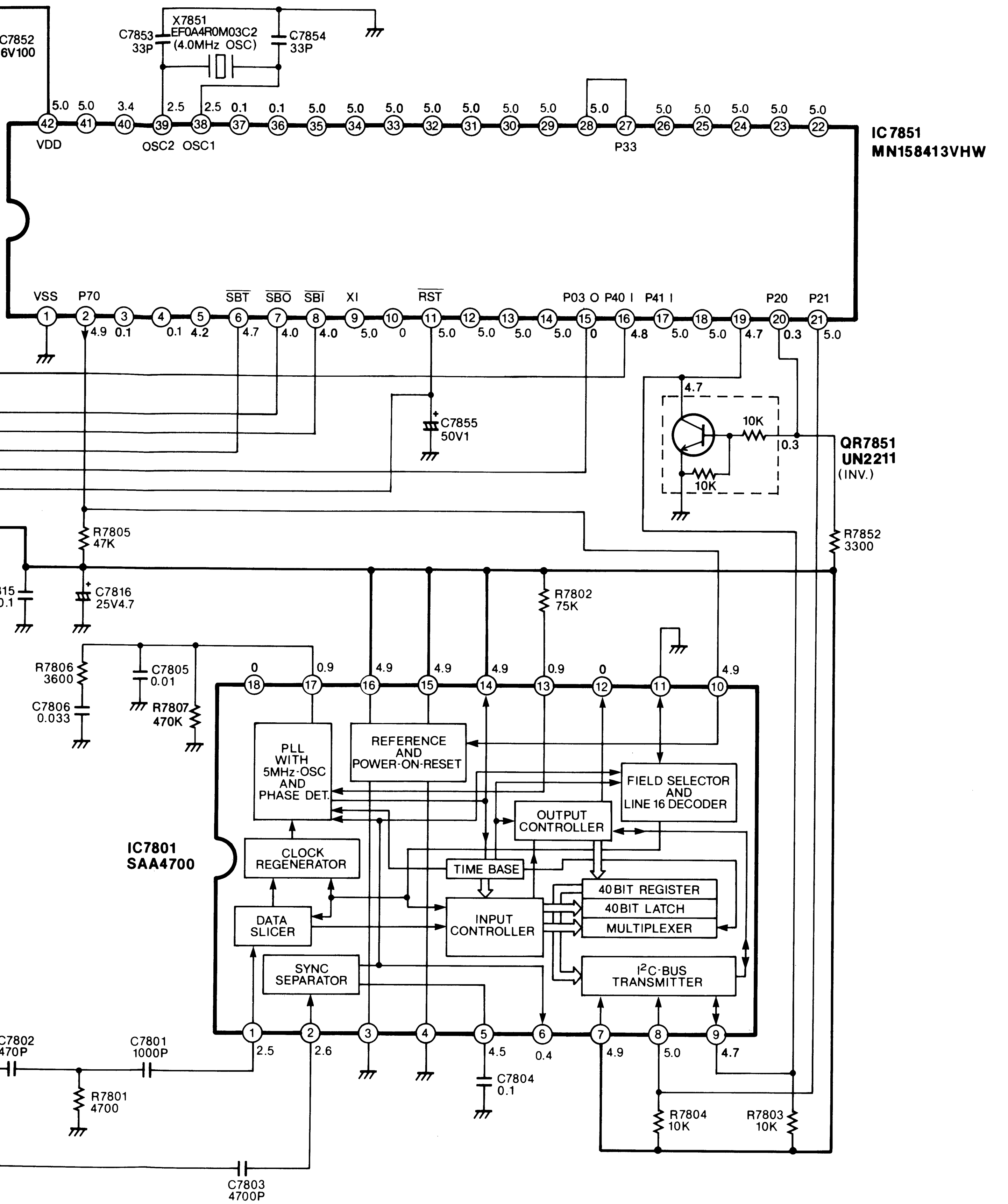
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-37. VPS PAC



B
A
C780
R7801
1
5
10
C7


C7852
6V100
C7853
33P
X7851
EF0A4R0M03C2
(4.0MHz OSC)
C7854
33P
IC7851
MN158413VHW
VDD
OSC2
OSC1
P33
VSS
P70
SBT
SBO
SBI
XI
RST
P03 O
P40 I
P41 I
P20
P21
C7855
50V1
QR7851
UN2211
(INV.)
10K
R7805
47K
R7852
3300
C7816
25V4.7
R7802
75K
R7806
3600
C7805
0.01
C7806
0.033
R7807
470K
IC7801
SAA4700
PLL WITH 5MHz-OSC AND PHASE DET.
REFERENCE AND POWER-ON-RESET
FIELD SELECTOR AND LINE 16 DECODER
OUTPUT CONTROLLER
CLOCK REGENERATOR
TIME BASE
40BIT REGISTER
40BIT LATCH
MULTIPLEXER
DATA SLICER
INPUT CONTROLLER
SYNC SEPARATOR
I²C-BUS TRANSMITTER
C7802
470P
C7801
1000P
R7801
4700
C7804
0.1
R7804
10K
R7803
10K
C7803
4700P
3
4
5
6

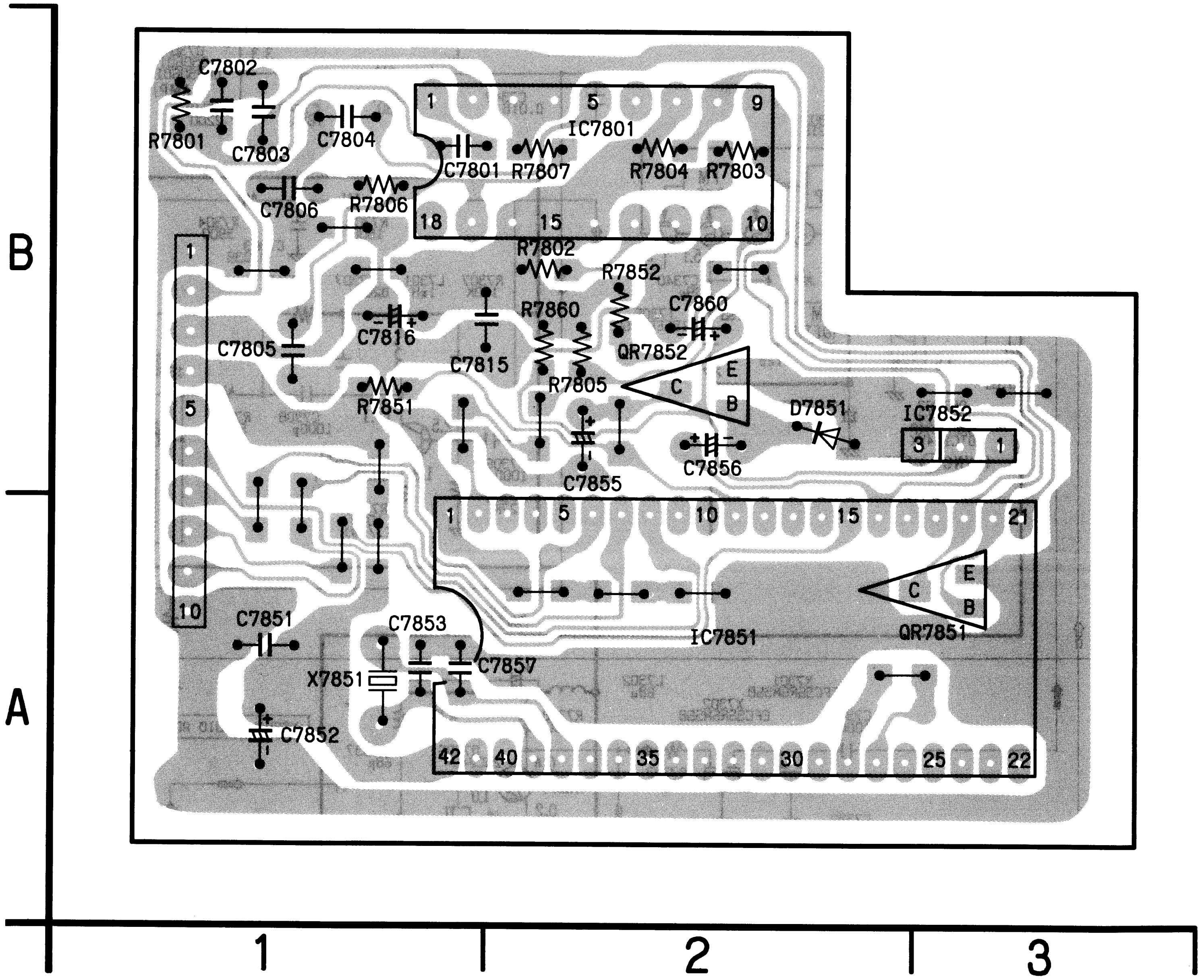
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-37. VPS PACK C.B.A. (VEP07563A)

VPS PACK C.B.A.	
Translator & Resistor	
QR7802	B-2
QR7851	A-3
Integrated Circuit	
IC7801	B-2
IC7851	A-2
IC7852	B-3

ADDRESS INFORMATION


B
A
1
2
3
C7802
R7801
C7803
C7804
IC7801
C7801
R7807
R7804
R7803
C7806
R7806
R7802
R7852
C7860
R7860
C7816
C7805
C7815
QR7852
R7805
R7851
D7851
IC7852
C7855
C7856
C7851
C7853
X7851
C7857
C7852
IC7851
QR7851
E
C
B

3-38. MAIN C.B.A. (VEP03633A: NV-FS100EG) (VEP03633B: NV-FS100EI)

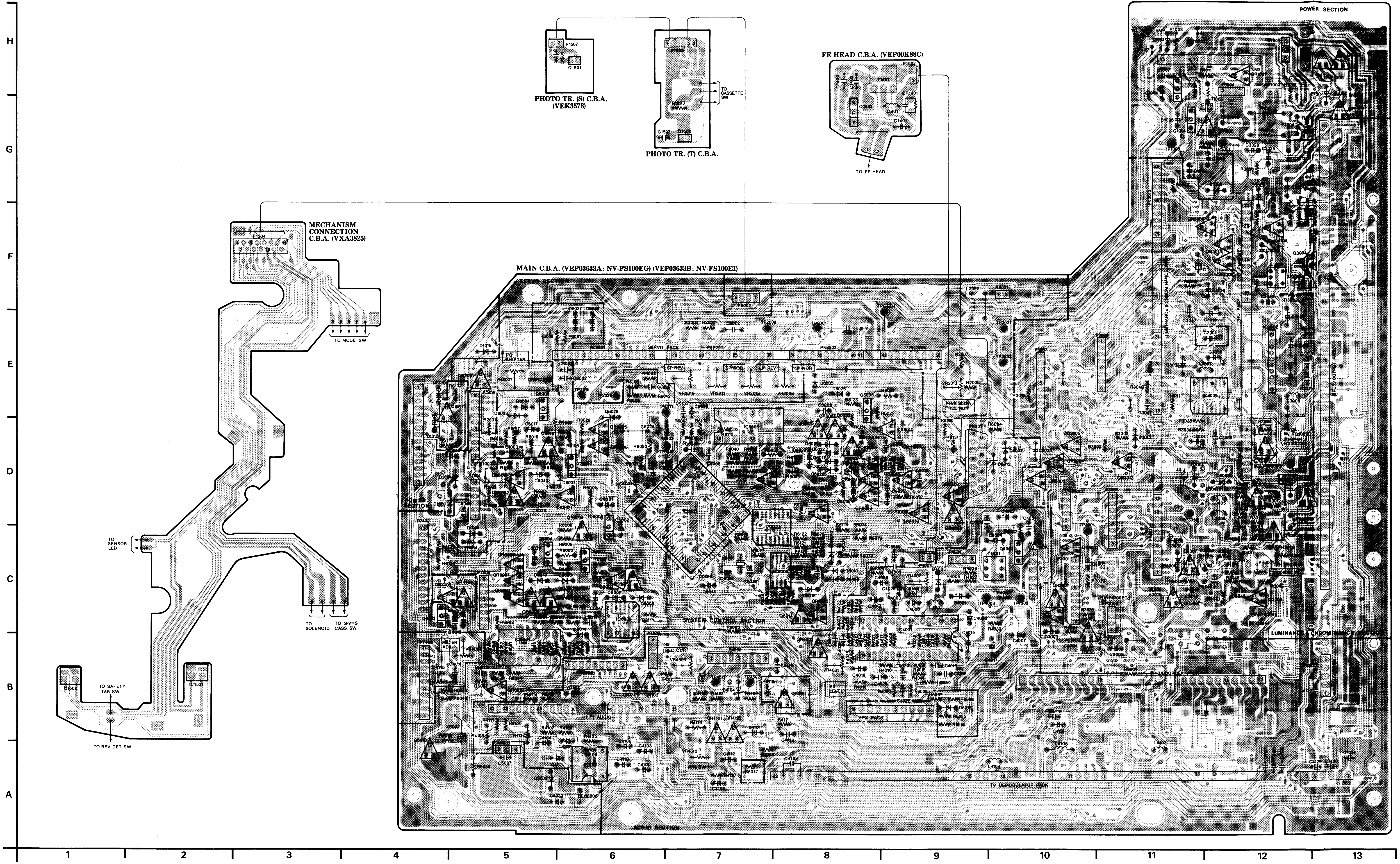


PHOTO TR. (S) C.B.A.
(VEK3578)
P1507
Q1501
P1503
R1503
C1502
Q1502
TO CASSETTE SW
PHOTO TR. (T) C.B.A.
FE HEAD C.B.A. (VEP00K88C)
P1502
T1401
Q1401
L1401
CR1401
C1401
TO FE HEAD
POWER SECTION
MECHANISM CONNECTION C.B.A. (VXA3825)
P1504
TO MODE SW
TO SENSOR LED
TO SOLENOID
TO S-VHS CASS. SW
IC1502
IC1501
TO SAFETY TAB SW
TO REV DET. SW
MAIN C.B.A. (VEP03633A: NV-FS100EG) (VEP03633B: NV-FS100EI)
SERVO SECTION
SERVO PACK
PK2201
PK2202
PK2203
PK2204
SP REV
SP NOR
LP REV
LP NOR
FINE SLOW FREE RUN
P6002
POWER SECTION
SYSTEM CONTROL SECTION
METER ADJ.
REC CUR
HI-FI AUDIO
VPS PACK
TV DEMODULATOR PACK
AUDIO SECTION
LUMINANCE & CHROMINANCE SECTION
DECODER PACK
INPUT/OUTPUT PACK
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13

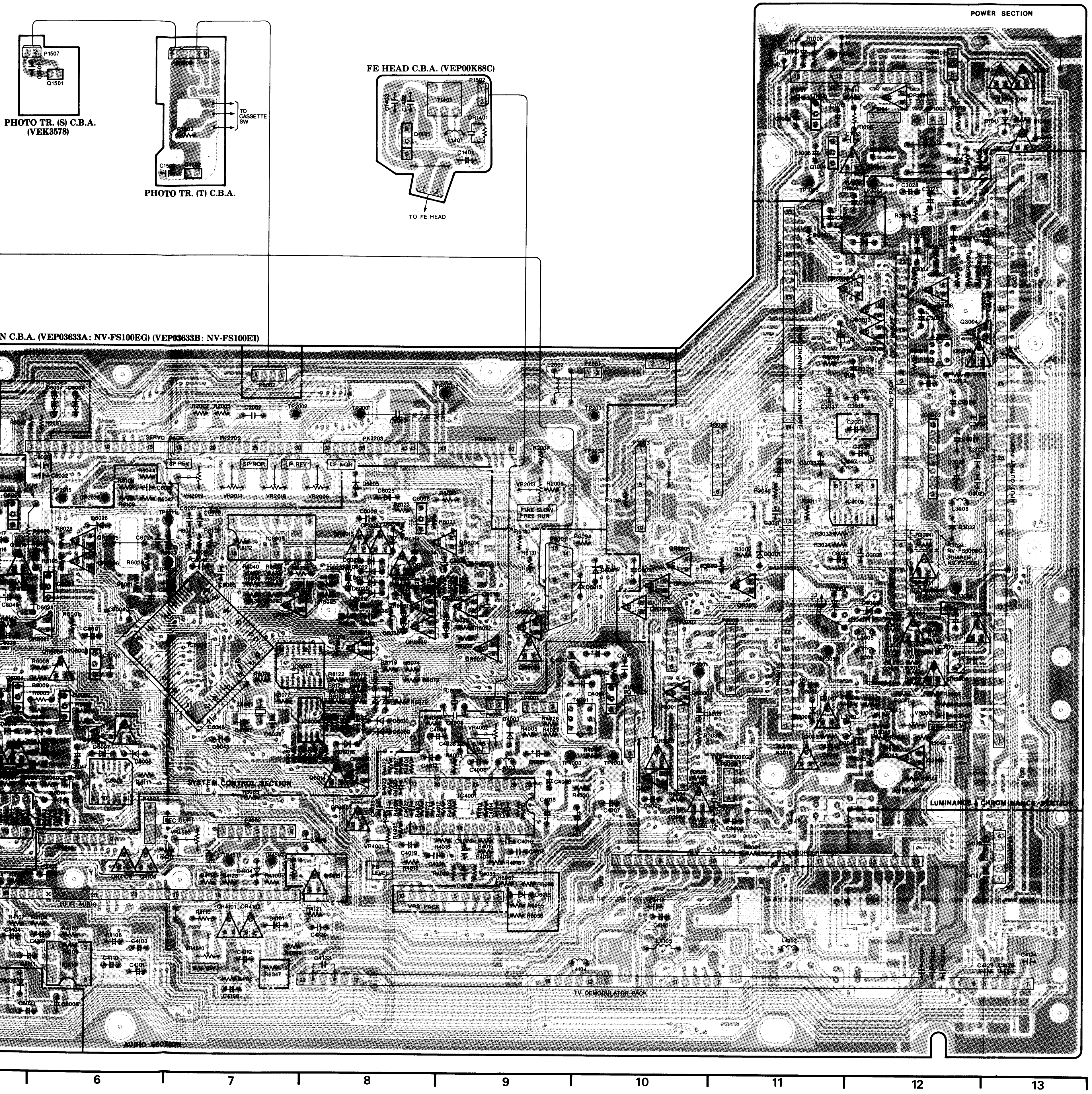


PHOTO TR. (S) C.B.A.
(VEK3578)
TO CASSETTE SW
PHOTO TR. (T) C.B.A.
FE HEAD C.B.A. (VEP00K88C)
TO FE HEAD
N C.B.A. (VEP03633A: NV-FS100EG) (VEP03633B: NV-FS100EI)
POWER SECTION
SERVO PACK
SYSTEM CONTROL SECTION
LUMINANCE & CHROMINANCE SECTION
HI-FI AUDIO
VPS PACK
TV DEMODULATOR PACK
AUDIO SECTION
6
7
8
9
10
11
12
13

MAIN C.B.A. ADDRESS INFORMATION

POWER Section	
Transistor	
Q1001	H-12
Q1002	H-13
Q1003	H-13
Q1004	G-11
Q1005	H-11
Transistor & Resistor	
QR1001	H-12
QR1002	G-13
QR1006	G-12
Test Point	
TP1002	H-11
TP1003	G-11
Connector	
P1001	H-12
P1004	H-12
P6003	E-4
P7401	D-5
P7405	E-5
BP1003	H-12

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE Section	
Transistor	
Q3001	C-10
Q3003	F-12
Q3004	F-12
Q3005	F-12
Q3006	C-12
Q3007	C-11
Q3008	D-12
Q3009	B-10
Transistor & Resistor	
QR3001	C-10
QR3002	C-10
QR3003	D-10
QR3004	D-10
QR3005	D-10
QR3006	C-12
QR3007	C-11
QR3008	F-12
QR3009	F-12
QR3011	D-12
QR3012	D-11
QR3013	F-12
QR3014	D-12
Integrated Circuit	
IC3001	E-12
IC3002	E-12
Test Point	
TP3001	C-10
TP3002	D-12
TP3050	D-11
TP3051	G-12
Adjustment	
VR3001	C-12
Connector	
P3001	C-10
P3002	E-11
P3003	E-10
P3005	C-11
P3007	D-10
P3008	D-11
PK3011	C-11
PK3012	E-11
PK3013	G-11
PK3021	D-12
PK3022	F-12

ADDRESS INFORMATION

SYSTEM CONTROL Section	
Transistor	
Q1401	G-8
Q1501	H-6
Q1502	G-7
Q6002	C-6
Q6003	C-6
Q6004	C-5
Q6006	E-5
Q6007	D-6
Q6008	E-8
Q6011	A-5
Q6013	B-4
Q6014	C-8
Q6015	B-8
Q6016	D-5
Q6017	E-5
Q6102	C-4
Transistor & Resistor	
QR6003	C-6
QR6004	D-6
QR6005	D-6
QR6006	D-6
QR6007	C-5
QR6008	C-5
QR6009	C-5
QR6010	C-5
QR6011	C-5
QR6013	D-5
QR6014	D-9
QR6015	D-8
QR6016	D-9
QR6017	D-7
QR6018	B-5
QR6019	D-8
QR6020	C-8
QR6021	D-6
QR6022	D-5
QR6024	D-9
QR6025	D-8
QR6027	E-8
QR6028	C-9
QR6029	D-9
QR6030	D-8
QR6031	D-8
Integrated Circuit	
IC1501	B-2
IC1502	B-1
IC6001	D-7
IC6002	D-6
IC6003	C-6
IC6004	B-5
IC6005	D-7
IC6006	C-8
IC6007	C-8
Test Point	
TP6010	D-7
TP6011	E-7
Connector	
P1502	H-9
P1504	F-3
P1507	H-6
P1508	H-7
P4004	C-9
P6001	D-9
P6002	F-7
P7402	D-4
P7404	C-5

ADDRESS INFORMATION

SERVO Section	
Transistor & Resistor	
QR2001	E-5
Test Point	
TP2001	E-8
TP2002	E-7
TP2015	E-6
TP2026	E-6
TP2031	E-10
TP2032	E-10
TP GND1	F-9
TP GND3	E-5
Adjustment	
VR2001	E-5
VR2006	E-8
VR2011	E-7
VR2013	E-9
VR2018	E-7
VR2019	E-7
Connector	
P2001	F-10
P2002	F-10
PK2201	E-6
PK2202	E-7
PK2203	E-8
PK2204	E-9

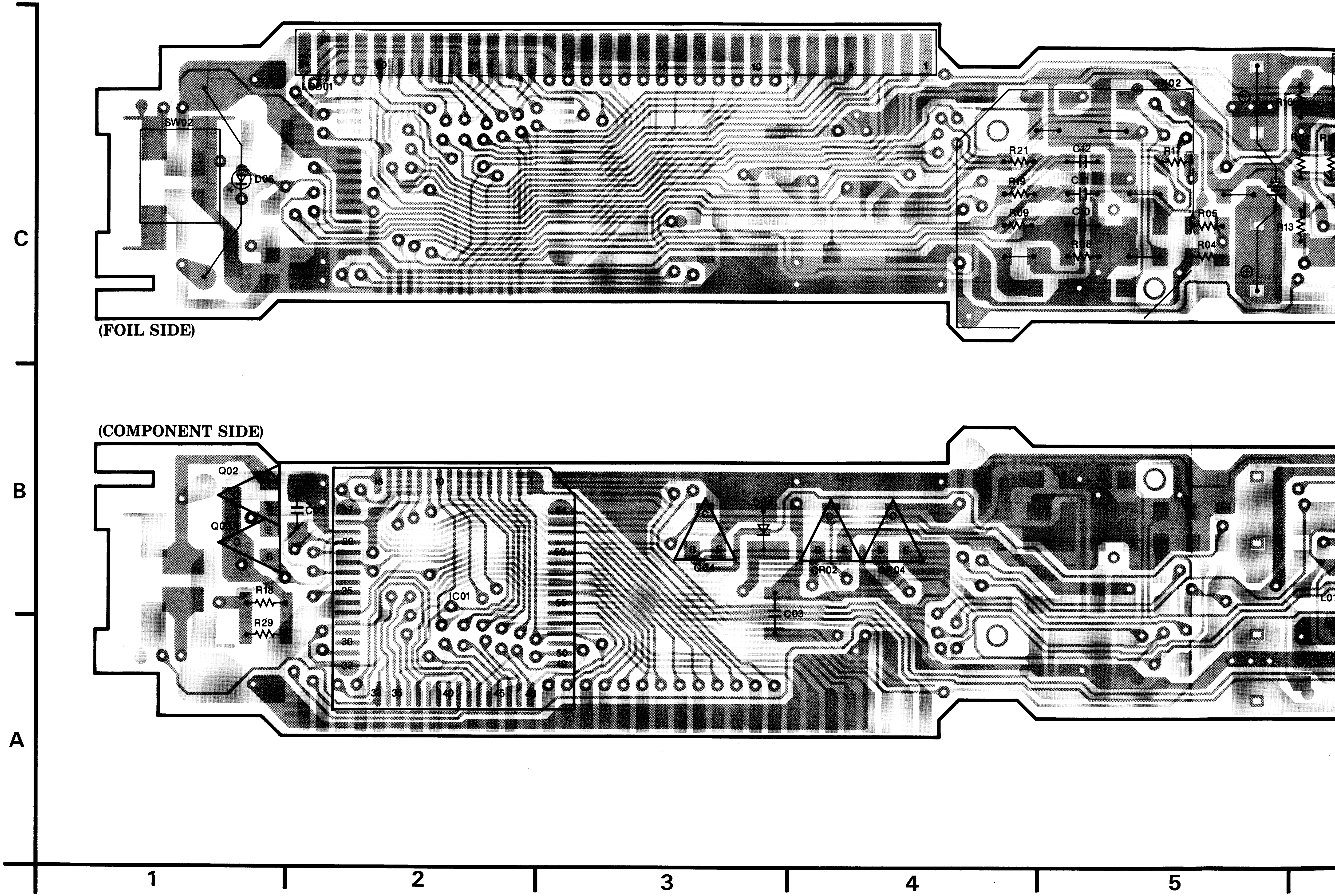
ADDRESS INFORMATION

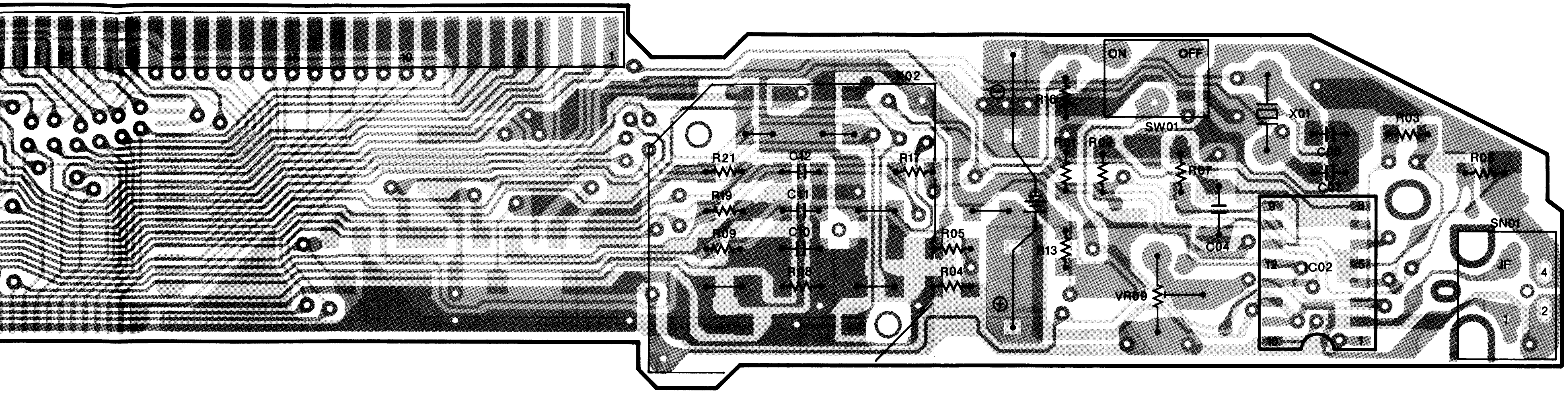
AUDIO Section	
Transistor	
Q4001	C-10
Q4103	B-6
Transistor & Resistor	
QR4001	B-8
QR4101	B-7
QR4102	B-7
QR4103	C-4
QR4104	C-5
QR4105	B-6
Integrated Circuit	
IC4001	C-9
IC4101	A-6
Test Point	
TP4002	C-10
TP4003	C-9
TP4502	B-7
TP4511	B-7
Adjustment	
VR4001	B-8
VR4002	C-9
VR4004	B-5
VR4503	B-7
VR4510	A-7
Connector	
P4001	C-9
P4002	B-7
P4003	B-6
P4005	B-6
P7403	B-4

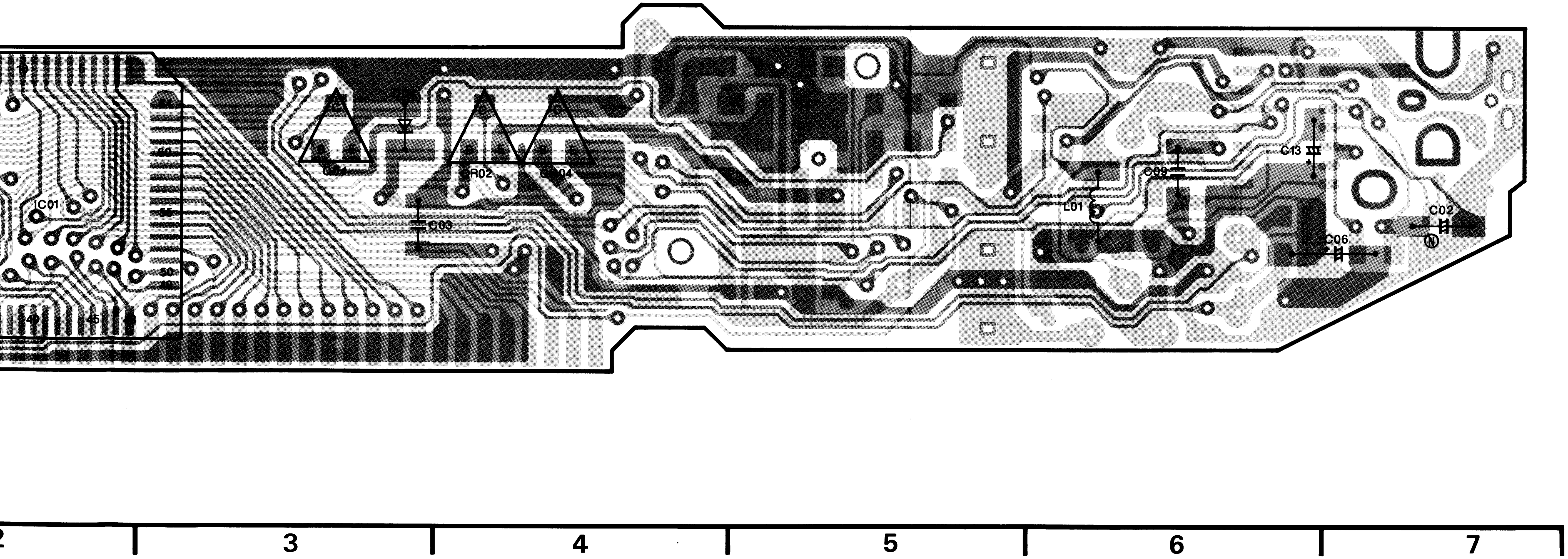
ADDRESS INFORMATION

Next Page:
DIGITAL SCANNER Section

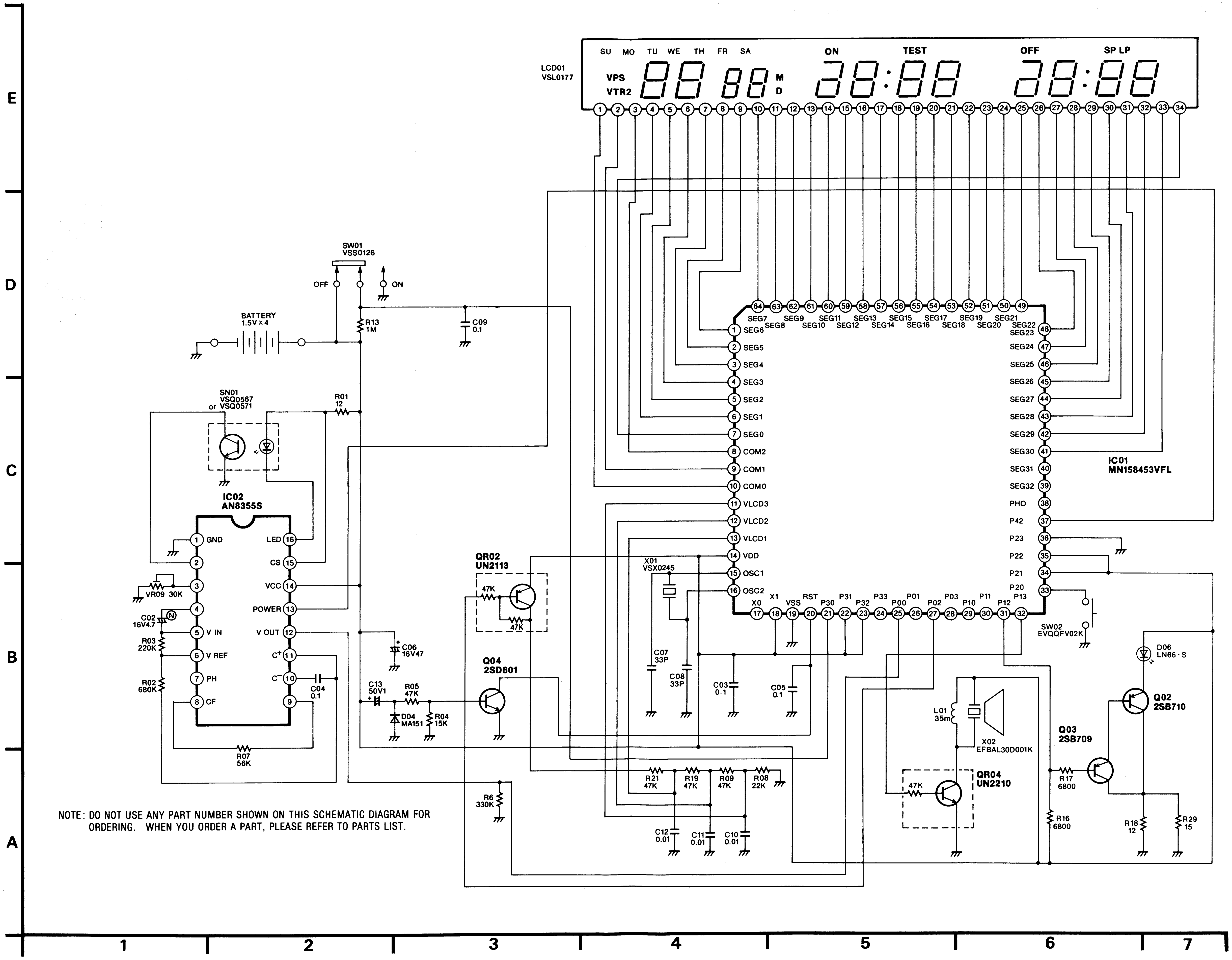
3-39. DIGITAL SCANNER C.B.A. (VEP66077C)


(FOIL SIDE)
(COMPONENT SIDE)
SW02
D06
R21
C12
R19
C11
R09
C10
R08
R17
R05
R04
R13
Q02
Q03
R18
R29
IC01
Q04
QR02
QR04
C03
C
B
A
1
2
3
4
5


20
15
10
5
1
X02
R21
C12
R19
C11
R09
C10
R08
R17
R05
R04
R16
R01
R02
R13
ON
OFF
SW01
R07
C04
VR09
X01
C06
C07
R03
R06
IC02
9
8
12
16
1
SN01
JF
4
2
1


64
60
55
50
49
45
IC01
Q04
QR02
QR04
C
B
E
C03
C13
C09
L01
C06
C02
2
3
4
5
6
7

3-40. DIGITAL SCANNER SCHEMATIC DIAGRAM — UNIT NO.: VEQ0996 —

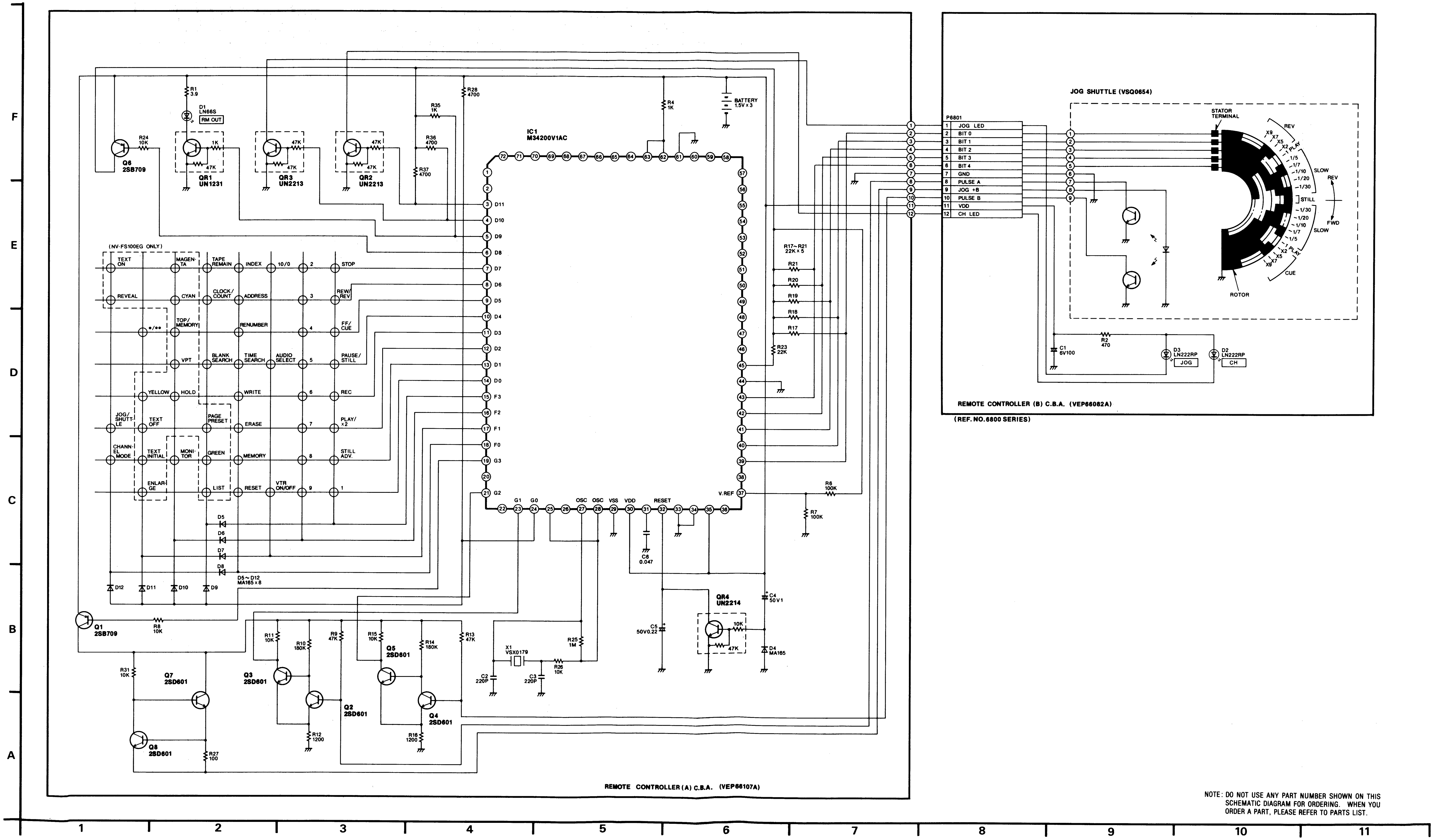


E
D
C
B
A
1
2
3
4
5
6
7
LCD01
VSL0177
SU MO TU WE TH FR SA
VPS
VTR2
M
D
ON
TEST
OFF
SP LP
SW01
VSS0126
OFF
ON
BATTERY
1.5V x 4
R13
1M
C09
0.1
SN01
VSQ0567
or VSQ0571
R01
12
IC02
AN8355S
GND
LED
CS
VCC
POWER
V IN
V REF
V OUT
PH
CF
C+
C-
VR09 30K
C02
16V4.7
R03
220K
R02
680K
C04
0.1
R07
56K
C06
16V47
C13
50V1
R05
47K
D04
MA151
R04
15K
QR02
UN2113
47K
47K
Q04
2SD601
R6
330K
X01
VSX0245
C07
33P
C08
33P
C03
0.1
C05
0.1
R21
47K
R19
47K
R09
47K
R08
22K
C12
0.01
C11
0.01
C10
0.01
IC01
MN158453VFL
SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18 SEG19 SEG20 SEG21 SEG22
SEG6 SEG5 SEG4 SEG3 SEG2 SEG1 SEG0
COM2 COM1 COM0
VLCD3 VLCD2 VLCD1
VDD OSC1 OSC2
X0 X1 VSS RST P30 P31 P32 P33 P00 P01 P02 P03 P10 P11 P12 P13
SEG23 SEG24 SEG25 SEG26 SEG27 SEG28 SEG29 SEG30 SEG31 SEG32
PHO P42 P23 P22 P21 P20
SW02
EVQQFV02K
L01
35m
X02
EFBAL30D001K
QR04
UN2210
47K
D06
LN66 · S
Q02
2SB710
Q03
2SB709
R17
6800
R16
6800
R18
12
R29
15

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-41. REMOTE CONTROLLER SCHEMATIC DIAGRAM

— UNIT NO.: VEQ0993 (NV-FS100EG), VEQ1014 (NV-FS100EI) —


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
R1 3.9
D1 LN66S
RM OUT
R24 10K
Q6 2SB709
QR1 UN1231
1K
47K
QR3 UN2213
QR2 UN2213
R28 4700
R35 1K
R36 4700
R37 4700
IC1 M34200V1AC
R4 1K
BATTERY 1.5V x 3
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
F3
F2
F1
F0
G3
G2
G1
G0
OSC
VSS
VDD
RESET
V.REF
(NV-FS100EG ONLY)
TEXT ON
MAGEN-TA
TAPE REMAIN
INDEX
10/0
2
STOP
REVEAL
CYAN
CLOCK/COUNT
ADDRESS
3
REW/REV
TOP/MEMORY
RENUMBER
4
FF/CUE
VPT
BLANK SEARCH
TIME SEARCH
AUDIO SELECT
5
PAUSE/STILL
YELLOW
HOLD
WRITE
6
REC
JOG/SHUTTLE
TEXT OFF
PAGE PRESET
ERASE
7
PLAY/x2
CHANN-EL MODE
TEXT INITIAL
MONI-TOR
GREEN
MEMORY
8
STILL ADV.
ENLAR-GE
LIST
RESET
VTR ON/OFF
9
1
D5
D6
D7
D8
D5~D12 MA165 x 8
D12
D11
D10
D9
R17~R21 22K x 5
R21
R20
R19
R18
R17
R23 22K
R6 100K
R7 100K
C6 0.047
Q1 2SB709
R8 10K
R31 10K
Q7 2SD601
Q8 2SD601
R27 100
R11 10K
R10 180K
Q3 2SD601
R12 1200
Q2 2SD601
R9 47K
R15 10K
Q5 2SD601
R14 180K
R16 1200
Q4 2SD601
R13 47K
C2 220P
X1 VSX0179
C3 220P
R26 10K
R25 1M
C5 50V0.22
QR4 UN2214
10K
47K
C4 50V1
D4 MA165
REMOTE CONTROLLER (A) C.B.A. (VEP66107A)
P6801
1 JOG LED
2 BIT 0
3 BIT 1
4 BIT 2
5 BIT 3
6 BIT 4
7 GND
8 PULSE A
9 JOG +B
10 PULSE B
11 VDD
12 CH LED
JOG SHUTTLE (VSQ0654)
STATOR TERMINAL
REV
X9
X7
X5
X2
PLAY
1/5
1/7
1/10
1/20
1/30
SLOW
STILL
FWD
CUE
ROTOR
C1 6V100
R2 470
D3 LN222RP
JOG
D2 LN222RP
CH
REMOTE CONTROLLER (B) C.B.A. (VEP66082A)
(REF. NO. 6800 SERIES)

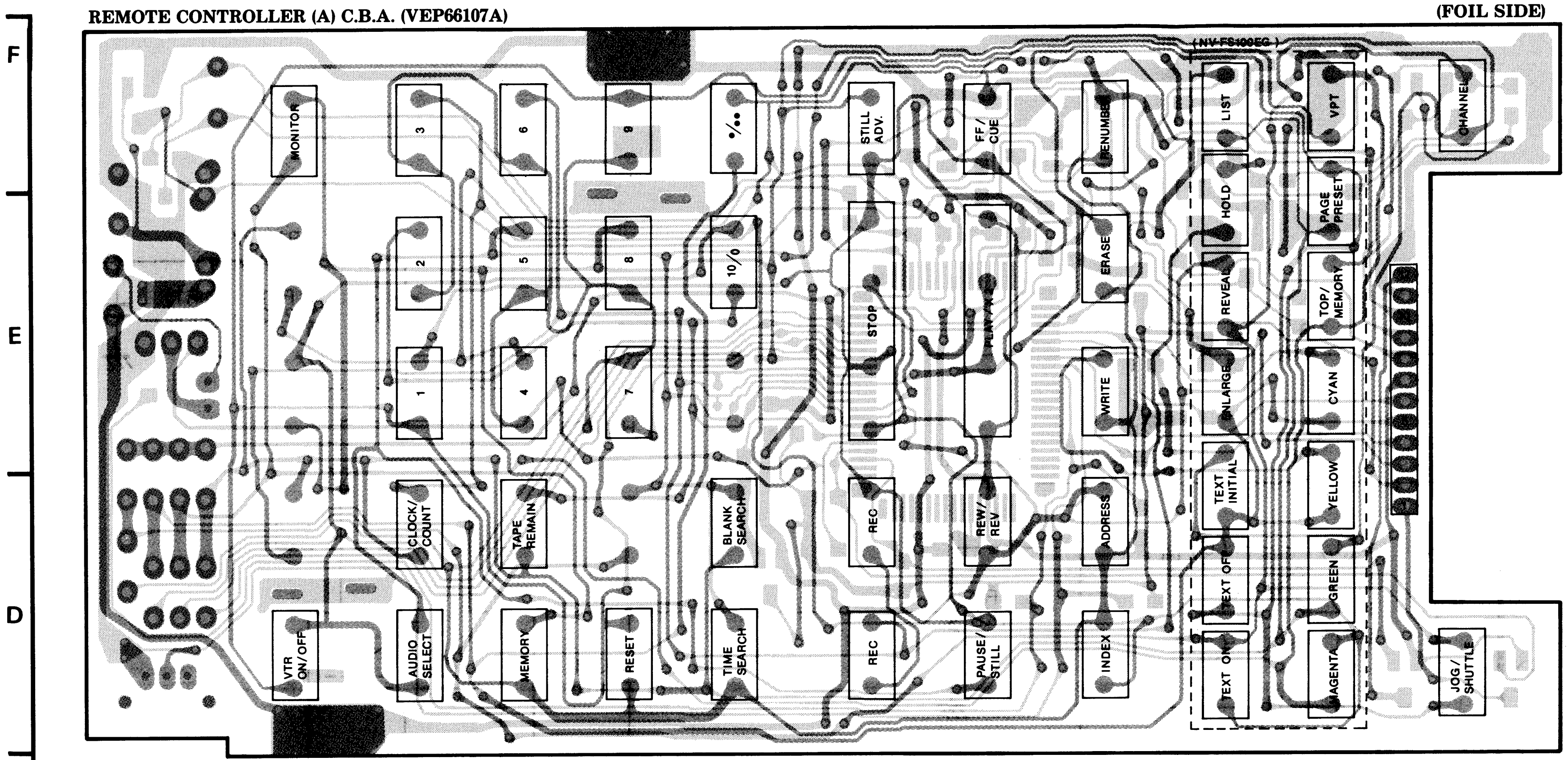
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

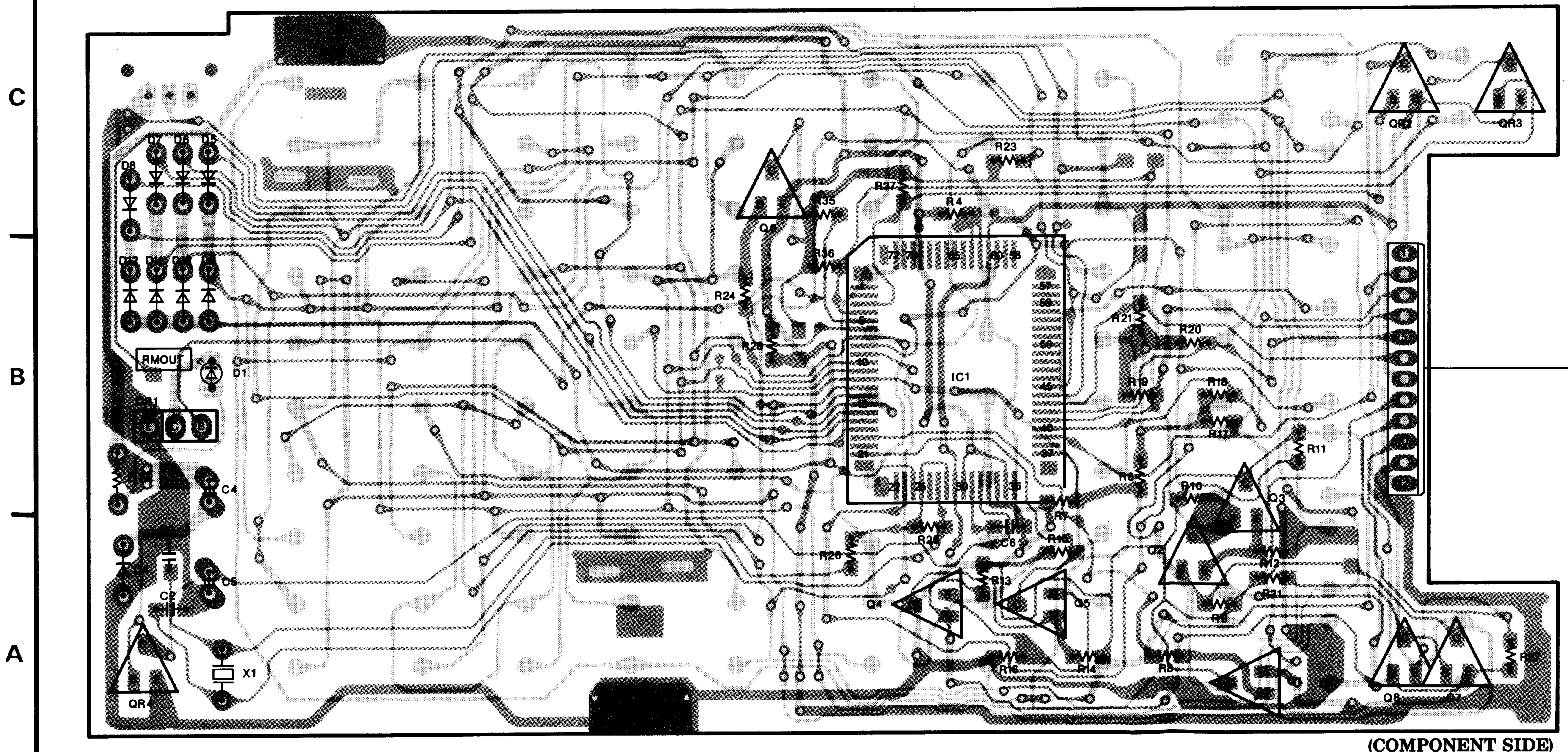
Back Page:
DIGITAL SCANNER Section

3-42. REMOTE CONTROLLER (A) C.B.A. (VEP66107A) & REMOTE CONTROLLER (B) C.B.A. (VEP66082A)

REMOTE CONTROLLER (A) C.B.A. (VEP66107A)

(FOIL SIDE)

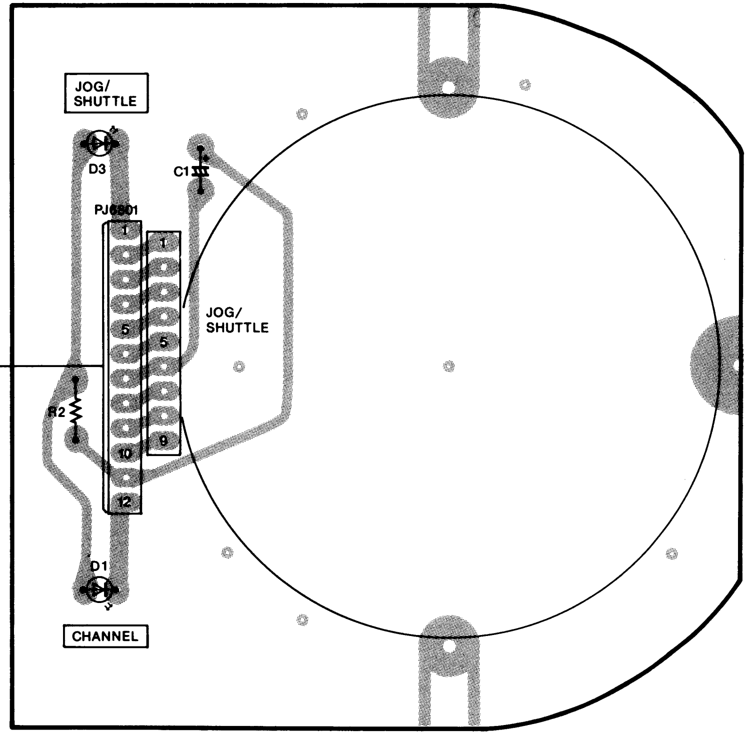

F
E
D
MONITOR
3
6
9
•/••
STILL ADV.
FF/ CUE
NUMBER
NV-FS100EG
LIST
VPT
CHANNEL
2
5
8
10/0
STOP
PLAY/X2
ERASE
HOLD
PAGE PRESET
1
4
7
WRITE
REVEAL
TOP/ MEMORY
ENLARGE
CYAN
CLOCK/ COUNT
TAPE REMAIN
BLANK SEARCH
REC
REW/ REV
ADDRESS
TEXT INITIAL
YELLOW
TEXT OFF
GREEN
VTR ON/OFF
AUDIO SELECT
MEMORY
RESET
TIME SEARCH
REC
PAUSE/ STILL
INDEX
TEXT ON
MAGENTA
JOG/ SHUTTLE


C
B
A
QR2
QR3
D7
D8
D5
D6
D12
D10
D9
D4
Q1
R35
R37
R23
R4
R36
R24
R28
72
70
65
60
58
57
55
50
45
40
37
21
22
25
30
35
1
5
10
15
IC1
R21
R20
R19
R18
R17
R11
R6
R10
Q3
RMOUT
D1
QR1
C4
C5
C2
C3
R26
R25
C6
R7
R15
Q2
R12
R13
Q4
Q5
R31
R9
R16
R14
R5
R27
QR4
X1
Q8
Q7
1
2
3
4
5
6

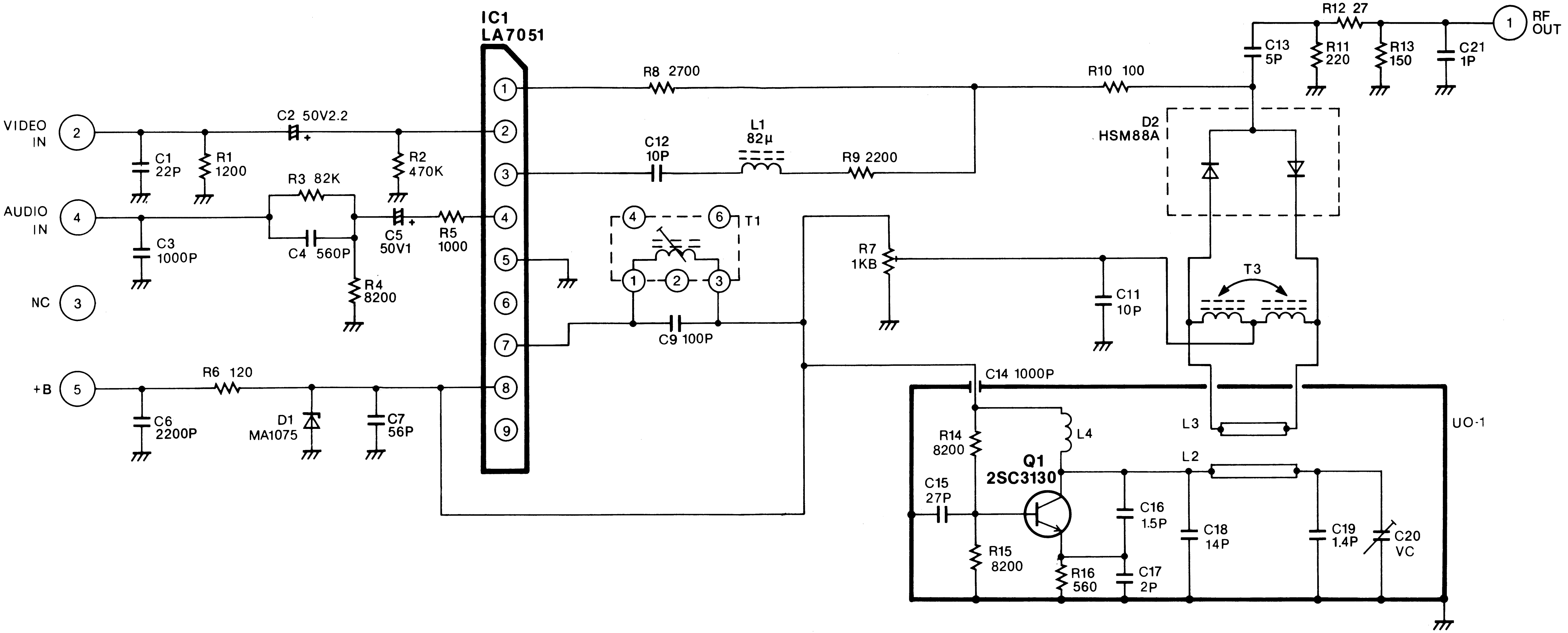
(COMPONENT SIDE)

(REF. NO. 6800 SERIES)

REMOTE CONTROLLER (B) C.B.A. (VEP66082A)


JOG/ SHUTTLE
D3
C1
PJ6801
1
5
10
12
1
5
9
JOG/ SHUTTLE
R2
D1
CHANNEL
7
8

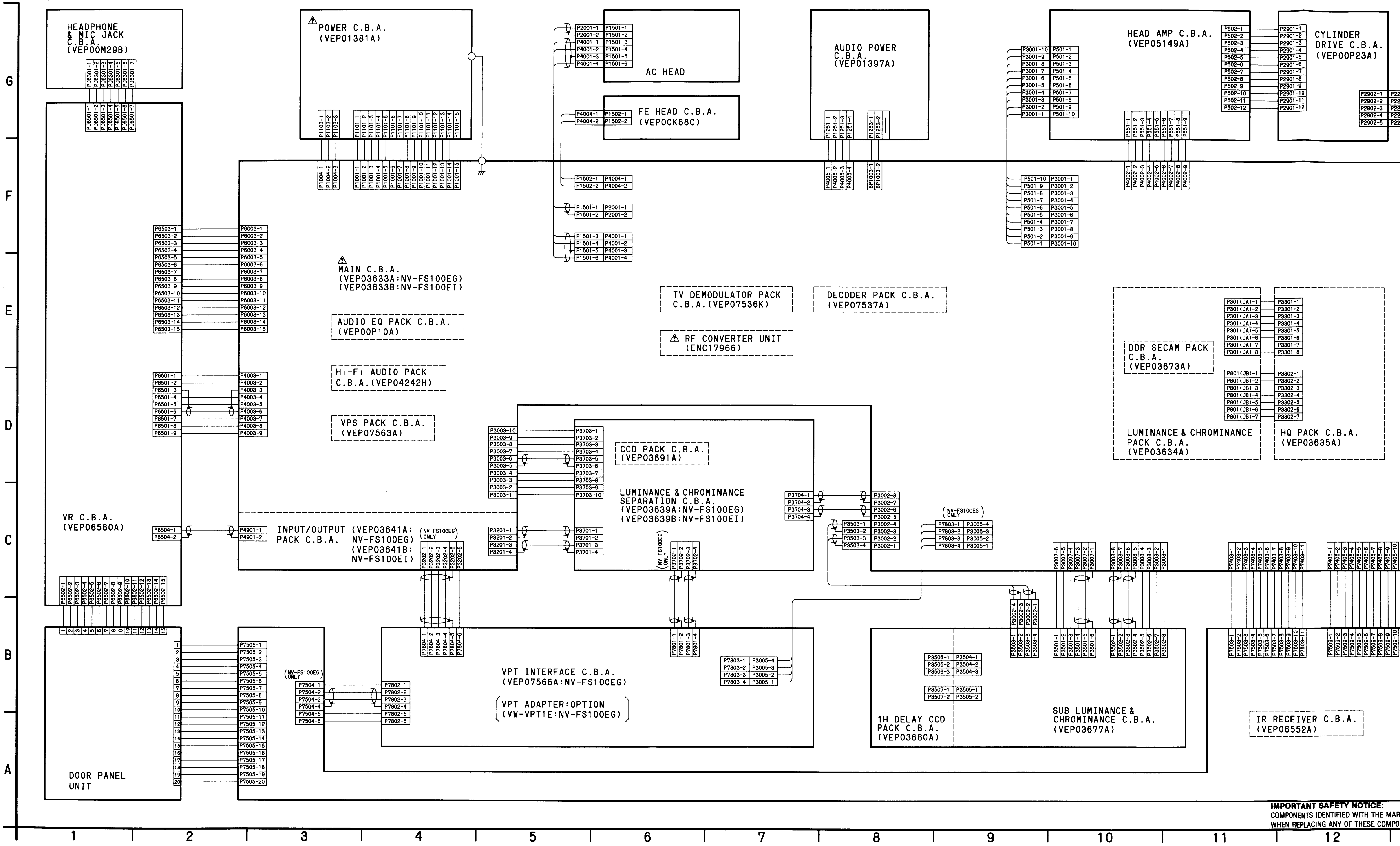
3-43. RF CONVERTER SCHEMATIC DIAGRAM (ENC17966)


IC1
LA7051
VIDEO IN
AUDIO IN
NC
+B
C1 22P
R1 1200
C2 50V2.2
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R5 1000
R4 8200
R6 120
C6 2200P
D1 MA1075
C7 56P
R8 2700
C12 10P
L1 82μ
R9 2200
T1
C9 100P
R7 1KB
C11 10P
R10 100
R12 27
RF OUT
C13 5P
R11 220
R13 150
C21 1P
D2 HSM88A
T3
C14 1000P
UO-1
L3
L2
L4
R14 8200
Q1 2SC3130
C15 27P
R15 8200
R16 560
C16 1.5P
C17 2P
C18 14P
C19 1.4P
C20 VC

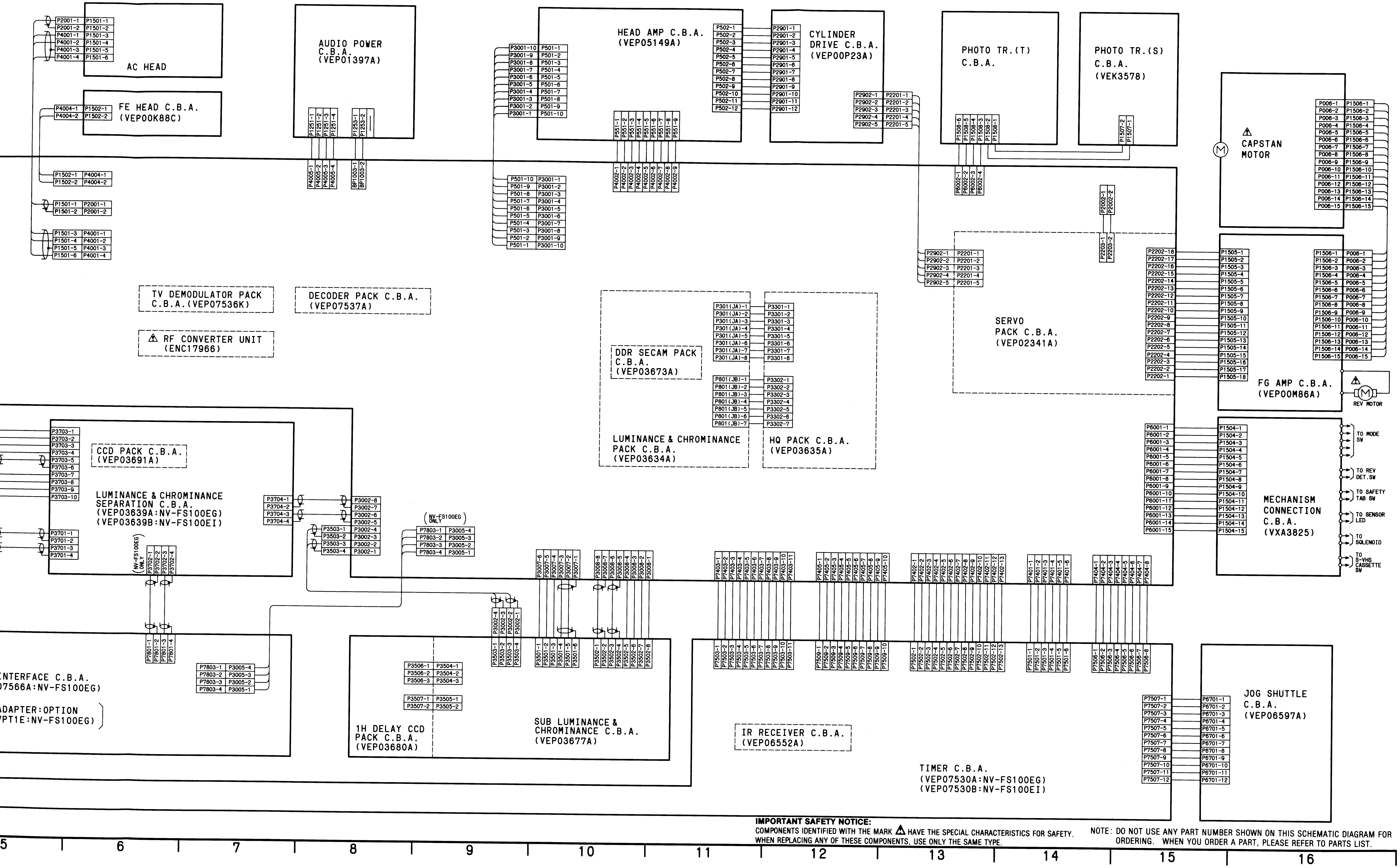
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
REMOTE CONTROLLER Section

3-44. INTERCONNECTION SCHEMATIC DIAGRAM


HEADPHONE & MIC JACK C.B.A. (VEP00M29B)
POWER C.B.A. (VEP01381A)
AC HEAD
FE HEAD C.B.A. (VEP00K88C)
AUDIO POWER C.B.A. (VEP01397A)
HEAD AMP C.B.A. (VEP05149A)
CYLINDER DRIVE C.B.A. (VEP00P23A)
MAIN C.B.A. (VEP03633A:NV-FS100EG) (VEP03633B:NV-FS100EI)
AUDIO EQ PACK C.B.A. (VEP00P10A)
Hi-Fi AUDIO PACK C.B.A.(VEP04242H)
VPS PACK C.B.A. (VEP07563A)
TV DEMODULATOR PACK C.B.A.(VEP07536K)
DECODER PACK C.B.A. (VEP07537A)
RF CONVERTER UNIT (ENC17966)
DDR SECAM PACK C.B.A. (VEP03673A)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03634A)
HQ PACK C.B.A. (VEP03635A)
CCD PACK C.B.A. (VEP03691A)
LUMINANCE & CHROMINANCE SEPARATION C.B.A. (VEP03639A:NV-FS100EG) (VEP03639B:NV-FS100EI)
VR C.B.A. (VEP06580A)
INPUT/OUTPUT PACK C.B.A. (VEP03641A: NV-FS100EG) (VEP03641B: NV-FS100EI)
(NV-FS100EG ONLY)
DOOR PANEL UNIT
VPT INTERFACE C.B.A. (VEP07566A:NV-FS100EG)
(VPT ADAPTER:OPTION (VW-VPT1E:NV-FS100EG))
1H DELAY CCD PACK C.B.A. (VEP03680A)
SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)
IR RECEIVER C.B.A. (VEP06552A)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MAR
WHEN REPLACING ANY OF THESE COMPO


AC HEAD
FE HEAD C.B.A. (VEP00K88C)
AUDIO POWER C.B.A. (VEP01397A)
HEAD AMP C.B.A. (VEP05149A)
CYLINDER DRIVE C.B.A. (VEP00P23A)
PHOTO TR.(T) C.B.A.
PHOTO TR.(S) C.B.A. (VEK3578)
CAPSTAN MOTOR
TV DEMODULATOR PACK C.B.A.(VEP07536K)
DECODER PACK C.B.A. (VEP07537A)
RF CONVERTER UNIT (ENC17966)
DDR SECAM PACK C.B.A. (VEP03673A)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03634A)
HQ PACK C.B.A. (VEP03635A)
SERVO PACK C.B.A. (VEP02341A)
FG AMP C.B.A. (VEP00M86A)
REV MOTOR
MECHANISM CONNECTION C.B.A. (VXA3825)
TO MODE SW
TO REV DET.SW
TO SAFETY TAB SW
TO SENSOR LED
TO SOLENOID
TO S-VHS CASSETTE SW
CCD PACK C.B.A. (VEP03691A)
LUMINANCE & CHROMINANCE SEPARATION C.B.A. (VEP03639A:NV-FS100EG) (VEP03639B:NV-FS100EI)
(NV-FS100EG ONLY)
INTERFACE C.B.A. 07566A:NV-FS100EG)
ADAPTER:OPTION PT1E:NV-FS100EG)
1H DELAY CCD PACK C.B.A. (VEP03680A)
SUB LUMINANCE & CHROMINANCE C.B.A. (VEP03677A)
IR RECEIVER C.B.A. (VEP06552A)
TIMER C.B.A. (VEP07530A:NV-FS100EG) (VEP07530B:NV-FS100EI)
JOG SHUTTLE C.B.A. (VEP06597A)
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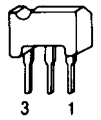
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
ICs & TRs INFORMATION Section

3-45. ICs & TRs INFORMATION



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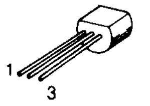

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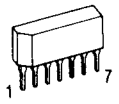

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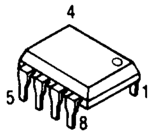

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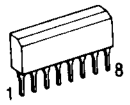

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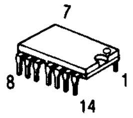

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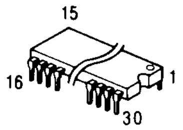

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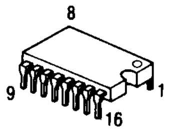

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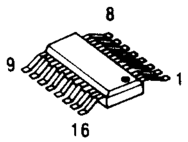

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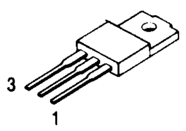

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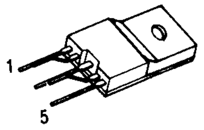

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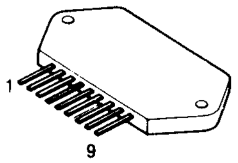

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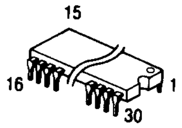

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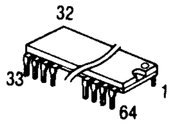

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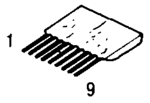

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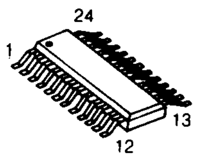

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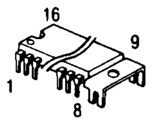

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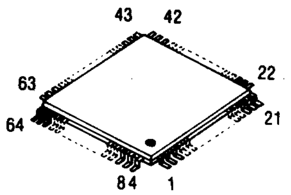
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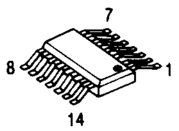

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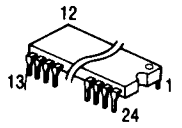

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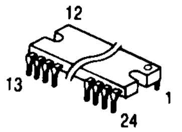

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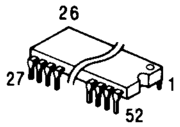

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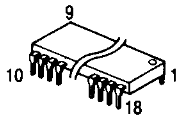

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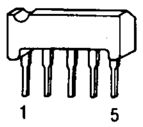

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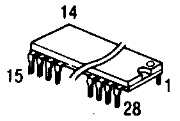

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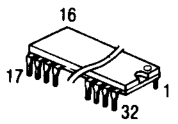

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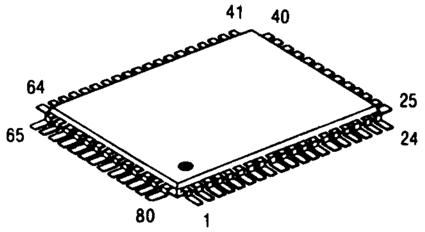
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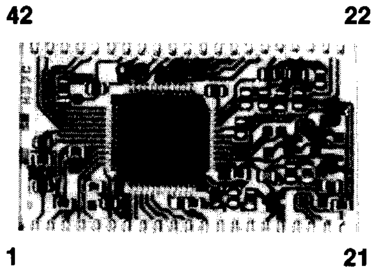

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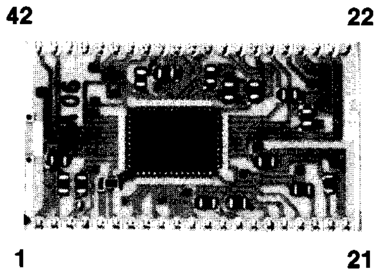

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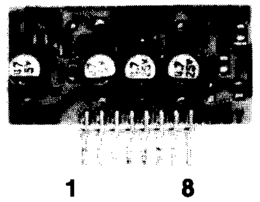

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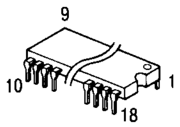

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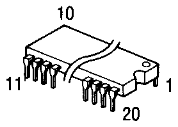

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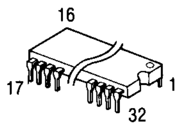

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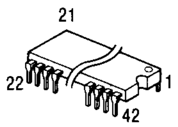

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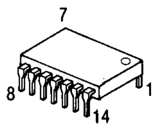

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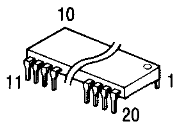

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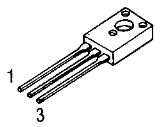

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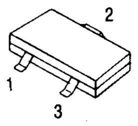

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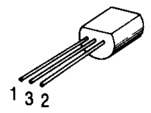

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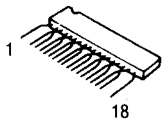

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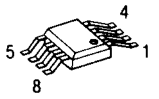

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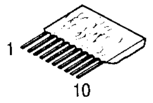

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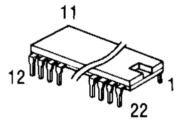

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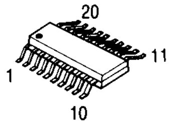

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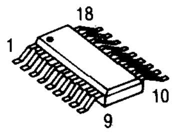

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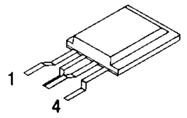

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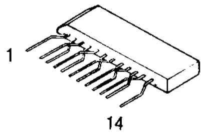

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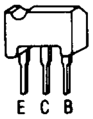

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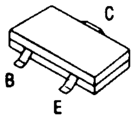

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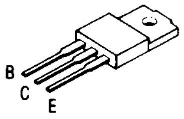

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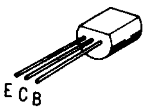

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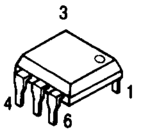

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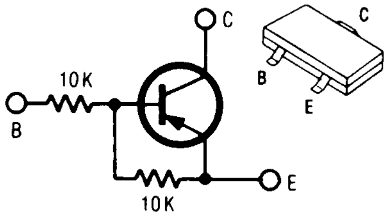
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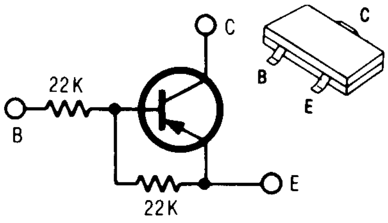
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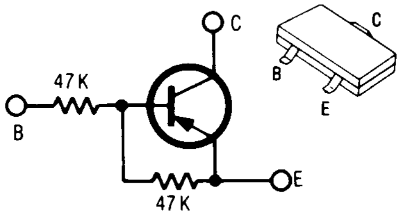
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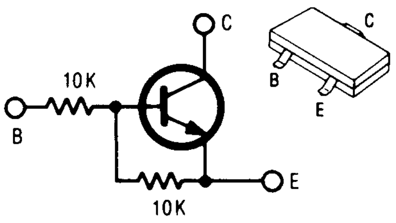
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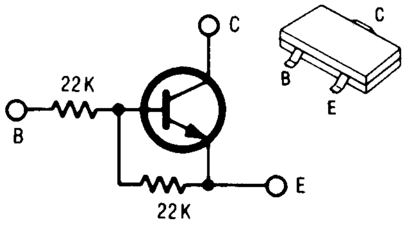
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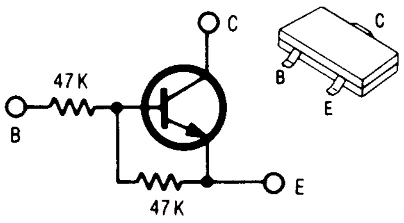
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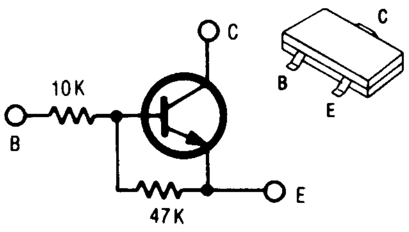
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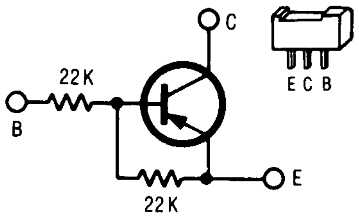
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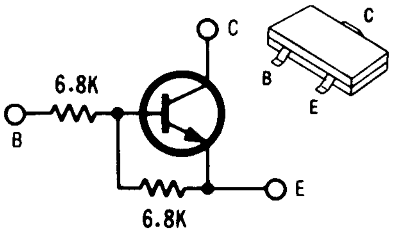
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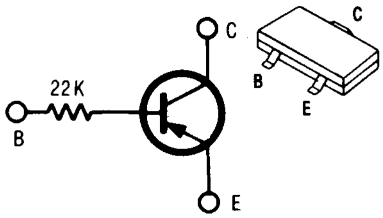

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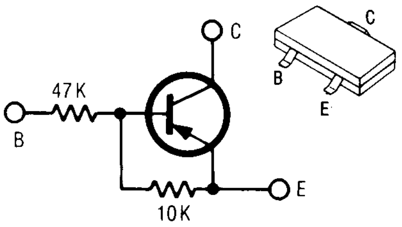
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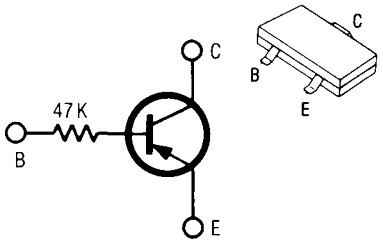
UN211D

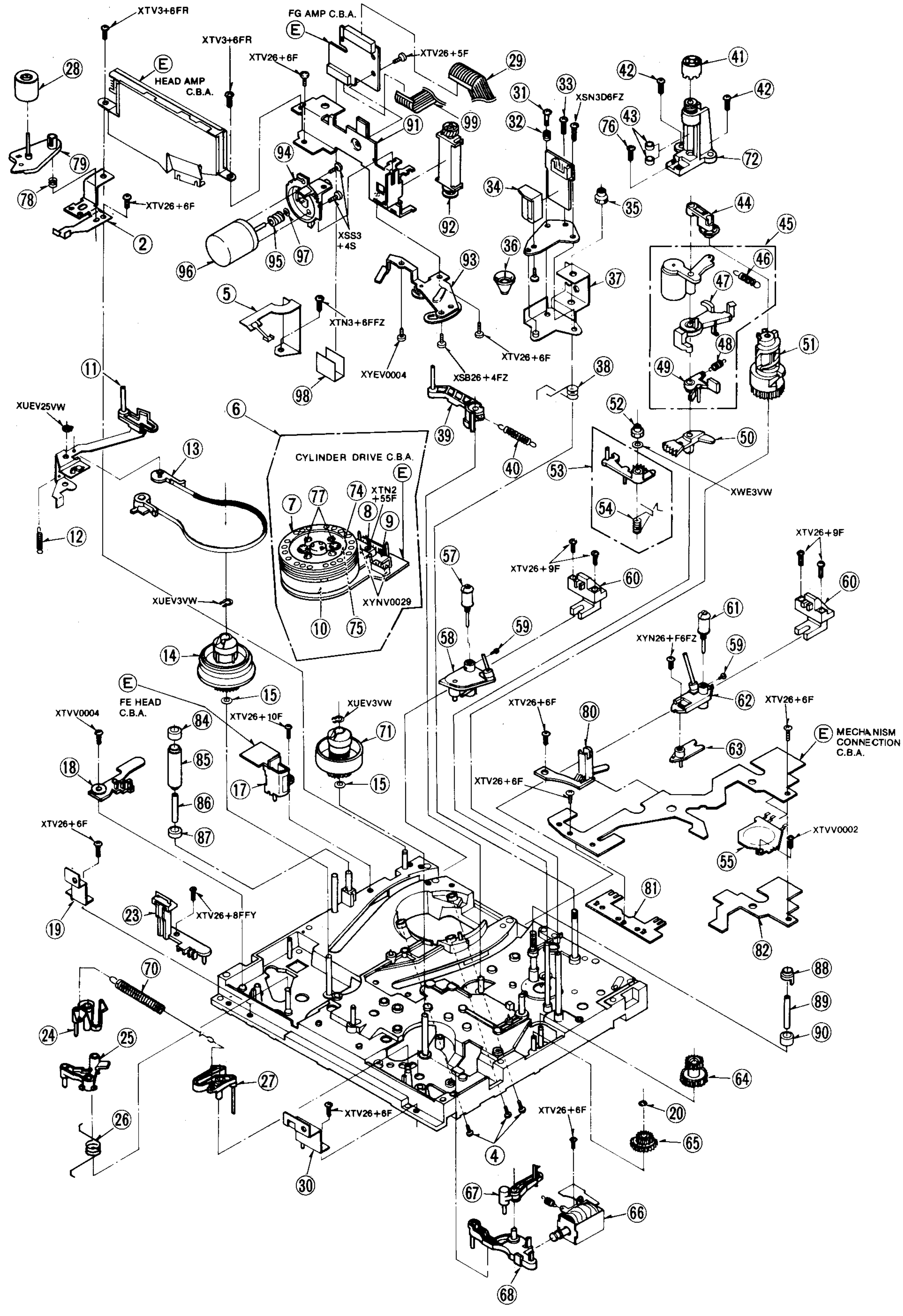


UN2110
DTA144TK

SECTION 4
EXPLODED VIEWS & PARTS LIST

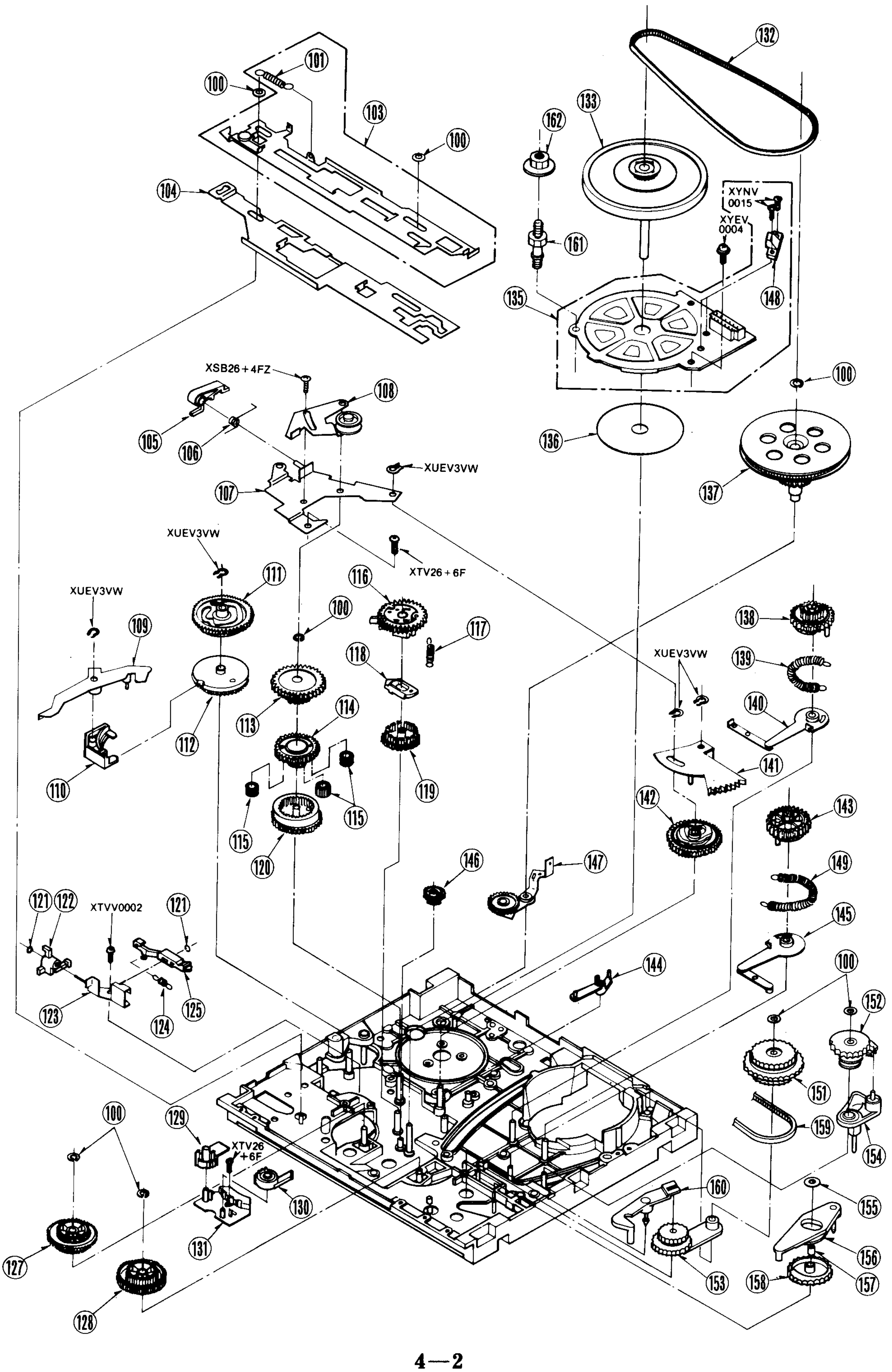
4-1. EXPLODED VIEW

❶ CHASSIS PARTS SECTION (1)



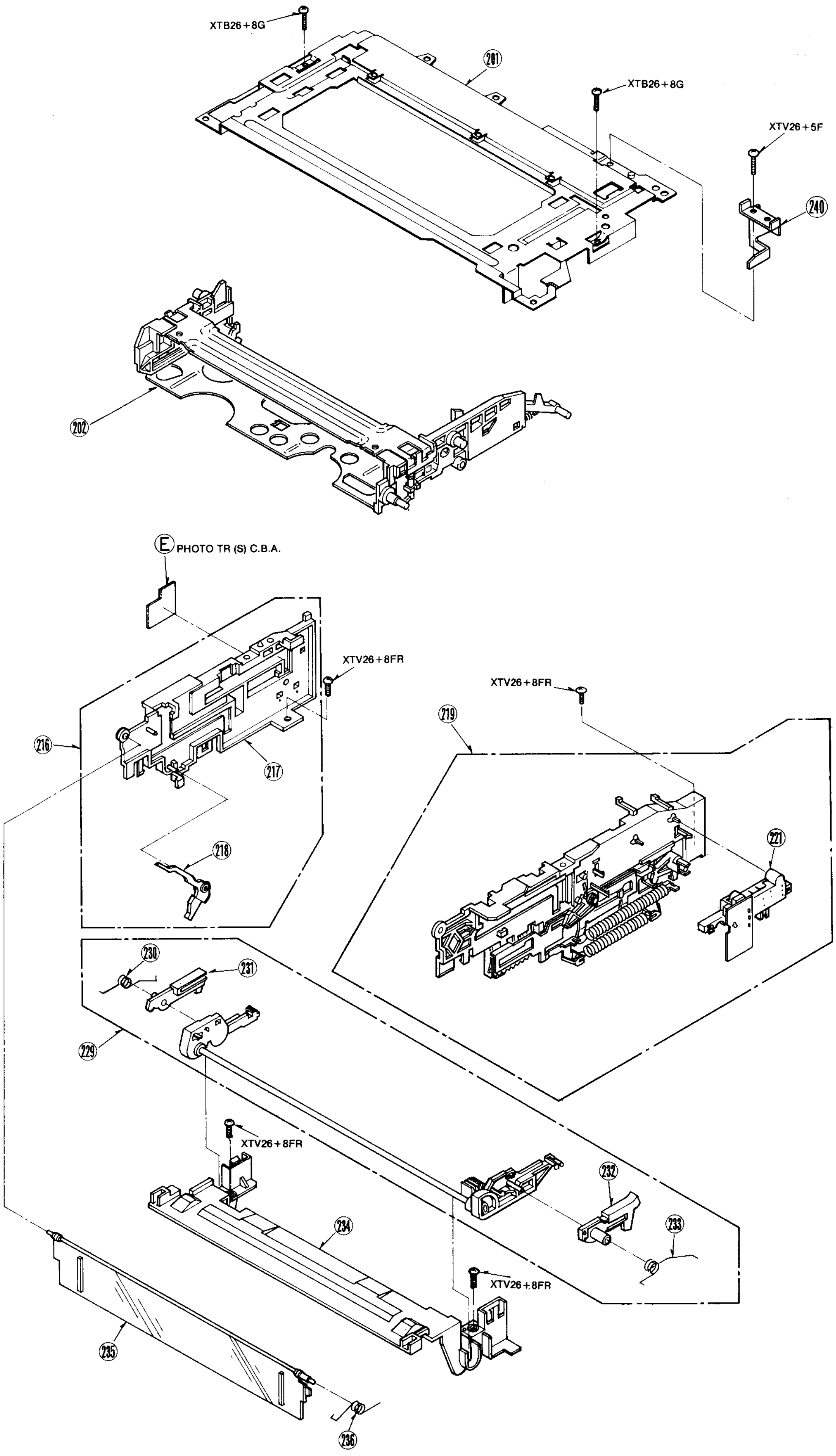
XTV3+6FR
FG AMP C.B.A.
Ⓔ
XTV3+6FR
Ⓔ
HEAD AMP C.B.A.
XTV26+6F
XTV26+5F
㉙
㉘
(41)
(42)
(42)
㉛
㉝
XSN3D6FZ
㉜
(43)
(76)
(72)
(91)
(99)
(79)
(78)
XTV26+6F
(94)
㉞
(35)
(44)
(45)
②
(96)
(95)
(97)
XSS3 +4S
(92)
(36)
(93)
(37)
(46)
(47)
⑤
XTN3+6FFZ
XTV26+6F
(48)
(51)
(49)
(98)
XYEV0004
XSB26+4FZ
(38)
⑪
XUEV25VW
⑥
(39)
(52)
(50)
CYLINDER DRIVE C.B.A.
Ⓔ
⑬
(40)
(53)
XWE3VW
⑦
(77)
(74)
XTN2 +55F
⑧
⑨
(54)
⑫
XTV26+9F
(57)
XTV26+9F
(60)
(60)
XUEV3VW
⑩
(75)
XYNV0029
(61)
⑭
(58)
(59)
XYN26+F6FZ
(59)
⑮
Ⓔ
FE HEAD C.B.A.
(62)
XTV26+6F
XTV26+6F
XTVV0004
(84)
XTV26+10F
XUEV3VW
(71)
(80)
Ⓔ
MECHANISM CONNECTION C.B.A.
⑱
(85)
(63)
⑰
⑮
XTV26+6F
(86)
XTV26+6F
XTVV0002
(87)
(55)
⑲
㉓
XTV26+8FFY
(81)
(82)
(70)
(88)
(89)
㉔
㉕
(90)
㉗
(64)
㉖
XTV26+6F
⑳
XTV26+6F
(65)
④
㉚
(67)
(66)
(68)

❷ CHASSIS PARTS SECTION (2)

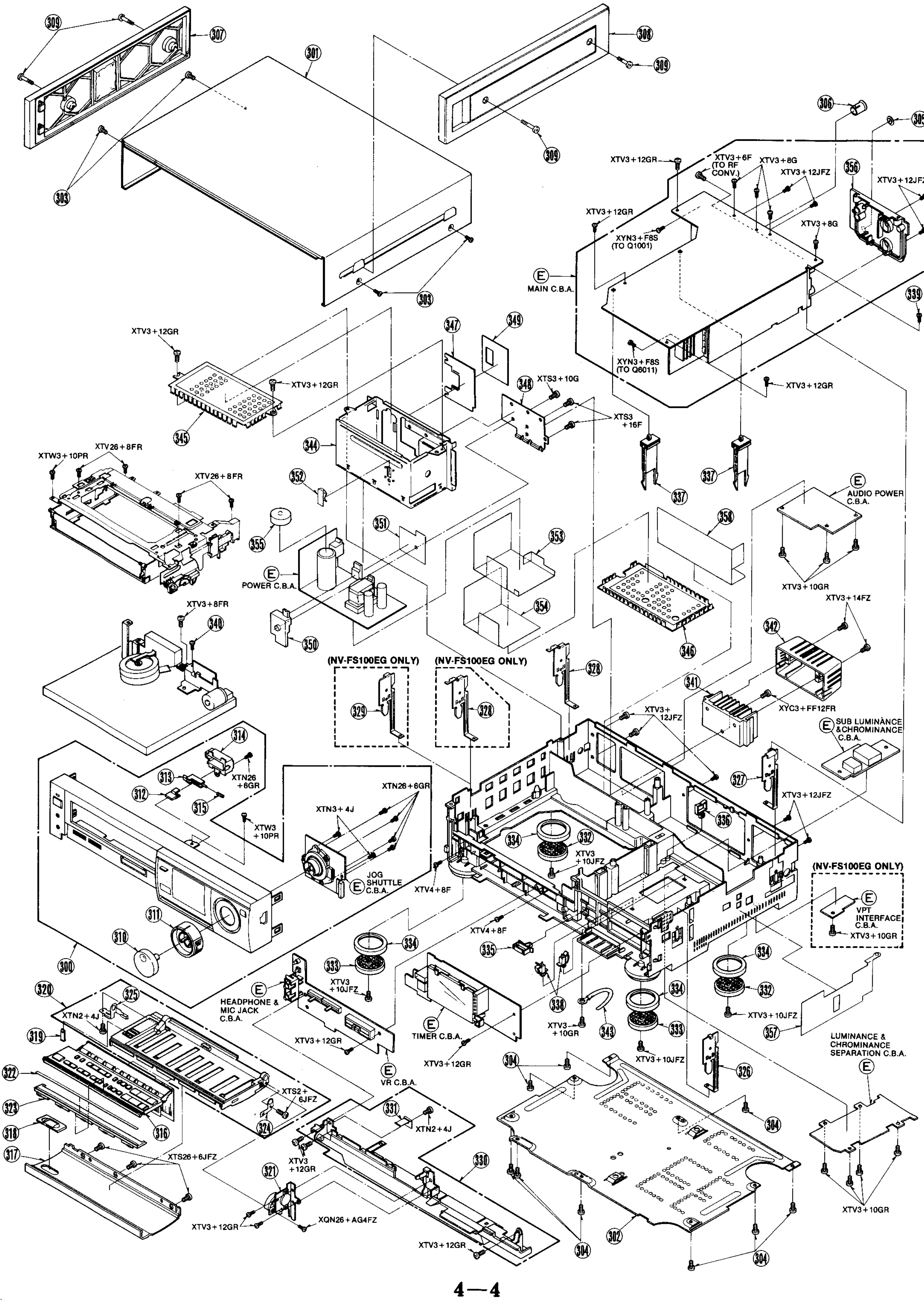


132
101
100
133
162
103
100
104
XYNV 0015
XYEV 0004
161
148
135
100
XSB26+4FZ
108
105
106
136
137
XUEV3VW
107
XUEV3VW
XTV26+6F
111
116
XUEV3VW
109
100
117
118
138
139
XUEV3VW
113
114
112
140
141
110
115
119
142
143
115
120
146
147
149
121
122
XTVV0002
121
145
144
123
124
125
100
152
151
159
154
100
129
XTV26 +6F
130
160
155
131
127
153
158
157
156
128

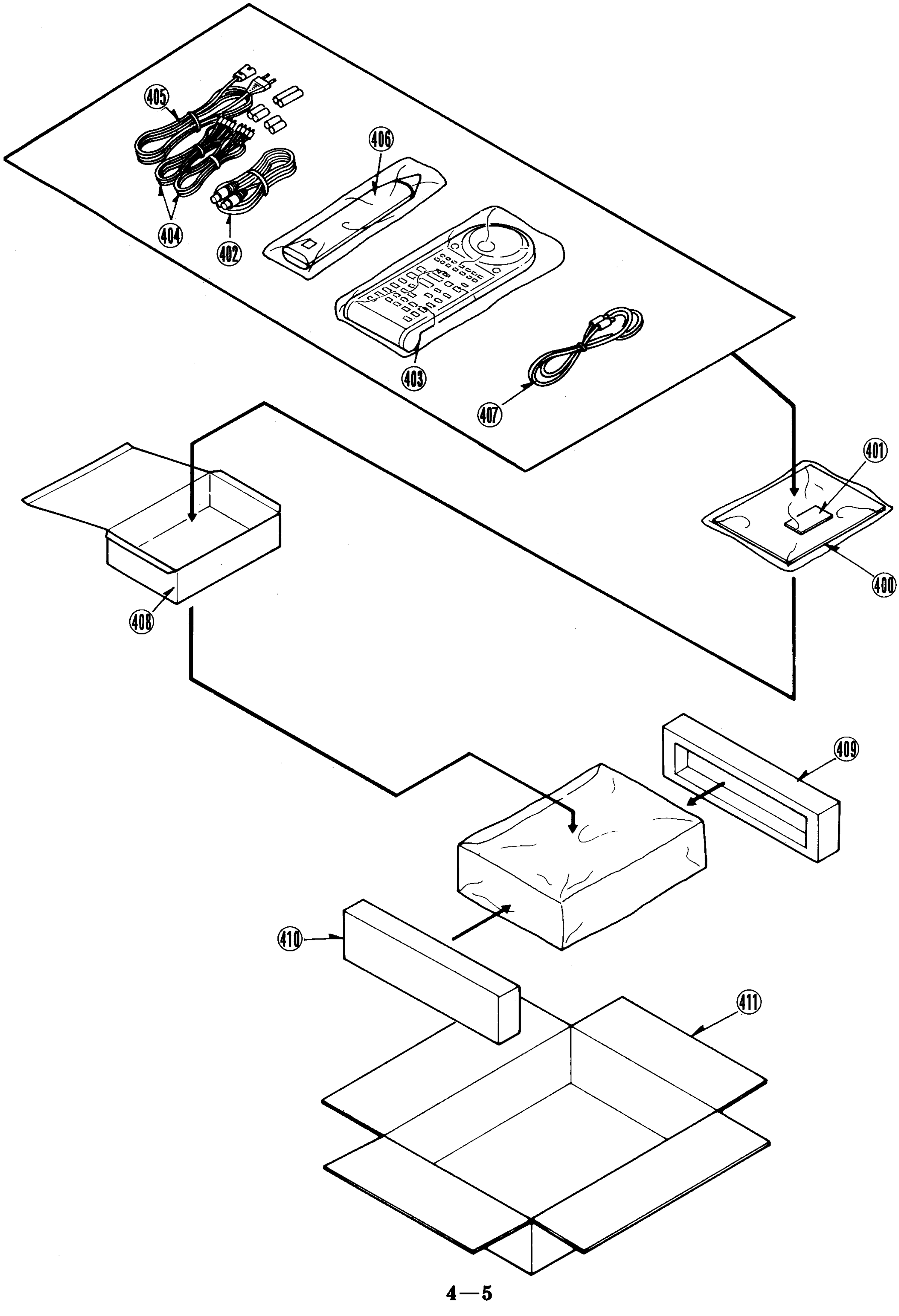
❸ CASSETTE UP MECHANISM SECTION


XTB26+8G
201
XTB26+8G
XTV26+5F
240
202
Ⓔ PHOTO TR (S) C.B.A.
XTV26+8FR
XTV26+8FR
219
216
217
221
218
230
231
229
XTV26+8FR
232
233
234
XTV26+8FR
235
236

❹ CASING PARTS SECTION


309
307
301
308
309
309
303
303
306
305
XTV3+12GR
XTV3+6F (TO RF CONV.)
XTV3+8G
XTV3+12JFZ
356
XTV3+12JFZ
XTV3+12GR
XYN3+F8S (TO Q1001)
XTV3+8G
E MAIN C.B.A.
339
XYN3+F8S (TO Q6011)
XTV3+12GR
XTV3+12GR
XTV3+12GR
347
349
345
348
XTS3+10G
XTS3 +16F
XTW3+10PR
XTV26+8FR
XTV26+8FR
344
352
337
337
E AUDIO POWER C.B.A.
355
351
353
358
E POWER C.B.A.
XTV3+10GR
XTV3+14FZ
354
350
346
342
XTV3+8FR
340
(NV-FS100EG ONLY)
(NV-FS100EG ONLY)
329
328
328
341
XTV3+ 12JFZ
XYC3+FF12FR
E SUB LUMINANCE &CHROMINANCE C.B.A.
314
313
XTN26 +6GR
312
315
XTW3 +10PR
XTN26+6GR
XTN3+4J
327
XTV3+12JFZ
336
334
332
XTV3 +10JFZ
(NV-FS100EG ONLY)
E VPT INTERFACE C.B.A.
XTV3+10GR
E JOG SHUTTLE C.B.A.
XTV4+8F
311
310
300
XTV4+8F
334
335
333
XTV3 +10JFZ
334
332
320
325
E HEADPHONE & MIC JACK C.B.A.
338
XTV3- +10GR
343
334
333
XTV3+10JFZ
XTV3+10JFZ
357
XTN2+4J
319
E TIMER C.B.A.
XTV3+12GR
XTV3+12GR
322
E VR C.B.A.
304
304
LUMINANCE & CHROMINANCE SEPARATION C.B.A. E
326
XTS2+ 6JFZ
323
316
324
331
XTN2+4J
304
318
317
XTS26+6JFZ
330
321
XTV3 +12GR
XTV3+12GR
XQN26+AG4FZ
XTV3+12GR
304
302
304
XTV3+10GR

❺ PACKING PARTS SECTION


405
406
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402
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401
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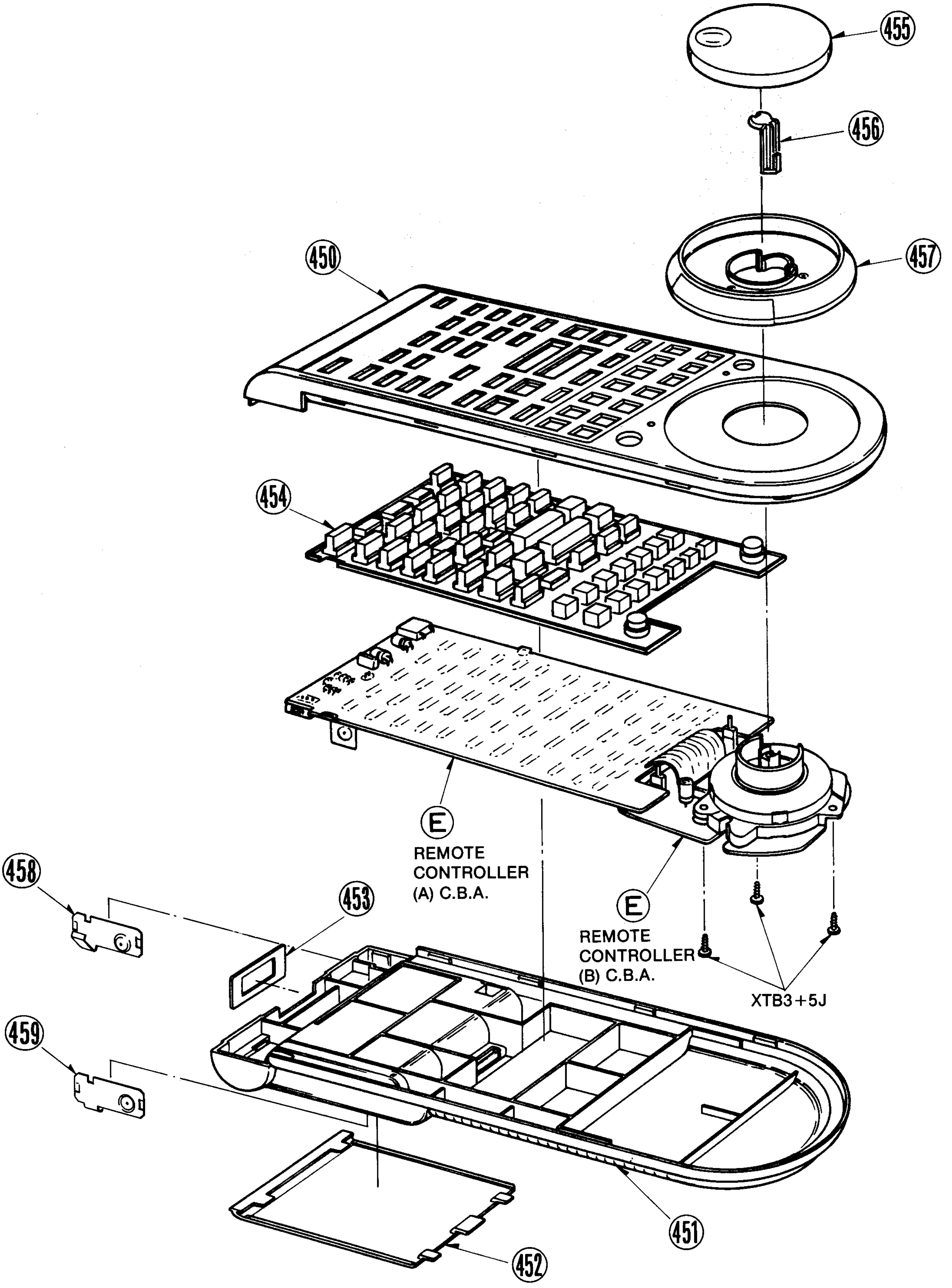
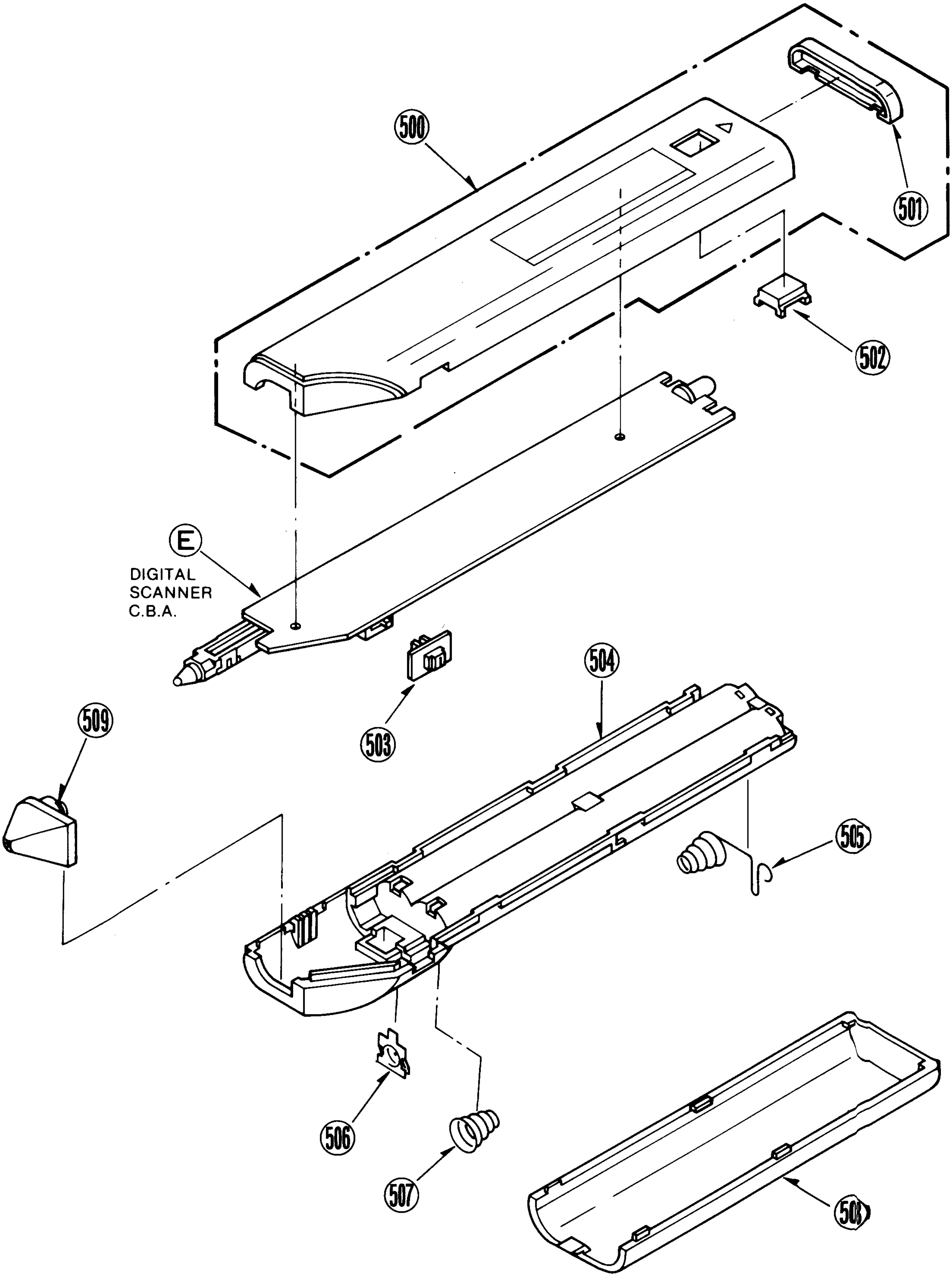
408
409
410
411

❻ REMOTE CONTROLLER UNIT


455
456
457
450
454
E
REMOTE
CONTROLLER
(A) C.B.A.
E
REMOTE
CONTROLLER
(B) C.B.A.
XTB3+5J
458
453
459
451
452

❼ DIGITAL SCANNER UNIT


500
501
502
E
DIGITAL SCANNER C.B.A.
503
504
505
506
507
508
509

4-2. MECHANICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VHD0418	HEAD AMP SET SCREW	2	
2(1)		VMA7174	HEAD AMP MOUNT ANGLE	1	
4(1)		VHD0342	CYLINDER SCREW	3	
5(1)		VXA2702	EARTH PLATE UNIT	1	
6(1)		VEG0736	CYLINDER UNIT	1	<!>
7(1)		VEH0454	UPPER CYLINDER UNIT	1	
8(1)		VRH0016	HEATER	1	
9(1)		VMA8089	MAIN HOLDER	1	
10(1)		VSC2188	CYLINDER C.B.A.SHIELD PLATE	1	
11(1)		VXL1855	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0267	TENSION BAND UNIT	1	
14(1)		VXR0179	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
17(1)		VBS0038	FE HEAD	1	
18(1)		VMD1316	TENSION SPRING HOOK	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	1	
23(1)		VES0486	SAFETY SW	1	
24(1)		VXZ0259	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0262	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXP1092	IMPEDANCE ROLLER UNIT	1	
29(1)		VWJ0358	FLEXIBLE CABLE(18P)	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VBR0132	A/C HEAD	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0110	ADJUST NUT	1	
37(1)		VMA7831	HEAD BASE	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1857	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1858	PRESSURE ROLLER UNIT	1	
46(1)		VMB1941	PIN PRESSURE SPRING	1	
47(1)		VML2232	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0597	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHN0023	M3 NYLON NUT	1	
53(1)		VXL1485	P5 UNIT	1	
54(1)		VMB1554	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
57(1)		VXP1093	ROLLER POST UNIT	1	
58(1)		VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
61(1)		VXP1094	ROLLER POST UNIT	1	
62(1)		VXA3213	INCLIND BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0332	CONNECTION GEAR	1	
66(1)		VEK3347	SOLENOID UNIT	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML2048	SOLENOID LEVER	1	
70(1)		VMB2012	MAIN BRAKE SPRING	1	
71(1)		VXR0176	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
74(1)		VSC1843	HEAT SINK PLATE	1	
75(1)		VHD0329	HEAT SINK SCREW	1	
76(1)		VHD0374	HOUSING SCREW	1	
77(1)		VHD0425	UPPER CYLINDER SCREW	2	
78(1)		VMB1741	IMPEDANCE ARM SPRING	1	
79(1)		VML2308	IMPEDANCE ROLLER ARM	1	
80(1)		VXA3520	LED HOLDER UNIT	1	
81(1)		VMA7829	REINFORCEMENT PLATE (F)	1	
82(1)		VMA7830	REINFORCEMENT PLATE (R)	1	
84(1)		VMX1088	SUPPLY UPPER LIMITER	1	
85(1)		VDP1072	SUPPLY ROLLER	1	
86(1)		VMX1581	P1 COLLAR	1	
87(1)		VMX1533	SUPPLY ROLLER LIMITER	1	
88(1)		VMX1544	P4 UPPER LIMITER	1	
89(1)		VMX1568	P4 SLEEVE	1	
90(1)		VMX1534	P4 LOWER LIMITER	1	
91(1)		VMA7832	MOTOR MOUNT PLATE UNIT	1	
92(1)		VXA3517	WORM WHEEL BEARING UNIT	1	
93(1)		VXA3701	TENSION PULLEY BASE (A) UNIT	1	
94(1)		VXA3564	REEL MOTOR BRACKET UNIT	1	
95(1)		VXP1047	WORM GEAR UNIT	1	
96(1)		VEM0320	REV MOTOR	1	
97(1)		VMX1535	WORM WASHER	1	
98(1)		VWJ15TW060M	FLEXIBLE CADE	1	
99(1)		VWJ0357	FLEXIBLE CADE(15P)	1	
100(2)		VMX1079	CUT WASHER	8	
101(2)		VMB1883	SUB LEVER SPRING	1	
103(2)		VXA3510	SUB LEVER UNIT	1	
104(2)		VMM0204	MAIN LEVER	1	
105(2)		VXL1873	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA3516	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0574	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0547	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP1031	TAKE UP REEL GEAR UNIT	1	
128(2)		VXP0981	SUPPLY REEL GEAR UNIT	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP0777	ROTOR UNIT	1	
135(2)		VEK4097	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP1050	CENTRE PULLEY UNIT	1	
138(2)		VDG0564	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3515	SECTOR GEAR UNIT	1	
142(2)		VDG0516	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML2266	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0546	INTERMEDIATE GEAR	1	
147(2)		VXL1861	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
149(2)		VMB1746	LOADING SPRING(S)	1	
151(2)		VXP1029	REVIEW CLUTCH UNIT	1	
152(2)		VXP1030	TENSION RELEASE CLUTCH UNIT	1	
153(2)		VXL1851	REVIEW ARM UNIT	1	
154(2)		VML2197	TENSION RELEASE LEVER	1	
155(2)		VMX1536	CUT WASHER	1	
156(2)		VML2233	SUB CAM FOLLOWER	1	
157(2)		VMX1495	RUBBER STOPPER	1	
158(2)		VDG0517	SUB LEVER CAM	1	
159(2)		VDV0199	REVIEW CLUTCH TIMING BELT	1	
160(2)		VML2200	REVIEW CONTROL LEVER	1	
161(2)		VHD0431	STATOR SPACER SCREW	1	
162(2)		VHN0102	STATOR NUT	1	
201(3)		VMA7223	TOP PLATE	1	
202(3)		VXA3832	CASSETTE HOLDER UNIT	1	
216(3)		VXA2676	SIDE PLATE (L) UNIT	1	
217(3)		VMD0917	SIDE PLATE (L)	1	
218(3)		VML1880	OPENER LEVER	1	
219(3)		VXA3495	SIDE PLATE (R) UNIT	1	
221(3)		VXA3498	SLIDE SW UNIT	1	
229(3)		VXP0987	MAIN SHAFT UNIT	1	
230(3)		VMB1836	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1837	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF1212	BLINDER PANEL	1	
236(3)		VMB1258	BLINDER SPRING	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)		VYP2833	FRONT PANEL UNIT	1	NV-FS100EG
300(4)		VYP2881	FRONT PANEL UNIT	1	NV-FS100EI
301(4)		VYP2835	TOP PANEL UNIT	1	
302(4)		VKU0323	BOTTOM PLATE	1	
303(4)		VHD0165	TOP PANEL SCREW	4	
304(4)		VHD0059	BOTTOM PLATE SCREW	9	
305(4)		VMG0491	RUBBER CAP	1	
306(4)		VGQ1421	SOCKET CAP	1	
307(4)		VYC0364	SIDE PANEL (L) UNIT	1	
308(4)		VYC0365	SIDE PANEL (R) UNIT	1	
309(4)		VHD0492	SIDE PANEL SCREW	4	
310(4)		VXU0942	JOB KNOB UNIT	1	
311(4)		VGU4826	SHUTTLE KNOB	1	
312(4)		VGU4497	DOOR OPEN BUTTON	1	
313(4)		VGU4498	DOOR LOCK LEVER	1	
314(4)		VGU4829	LOCK LEVER HOLDER	1	
315(4)		VMB1963	LOCK LEVER SPRING	1	
316(4)		VES0526	KEY BOARD PANEL UNIT	1	
317(4)		VYC0357	DOOR ALUMINUM UNIT	1	
318(4)		VGP2211	DOOR SUB PANEL	1	
319(4)		VGL0379	PANEL LIGHT	1	
320(4)		VYP2834	DOOR PANEL UNIT	1	
321(4)		VXU0936	DOOR GEAR UNIT	1	
322(4)		VGQ1971	CUSHION RUBBER	1	
323(4)		VKF1295	DOOR SUPPORT PANEL	1	
324(4)		VMP2314	DOOR PANEL ANGLE	1	
325(4)		VMC0522	PANEL EARTH SPRING	1	
326(4)		VMP2334	TOP HOLDER ANGLE (FRONT-R)	1	
327(4)		VMP2335	TOP HOLDER ANGLE (REAR-R)	1	
328(4)		VMP2336	TOP HOLDER ANGLE (REAR-L)	1	NV-FS100EG
328(4)		VMP2336	TOP HOLDER ANGLE (L)	2	NV-FS100EI
329(4)		VMP2511	TOP HOLDER ANGLE (FRONT-L)	1	NV-FS100EG
330(4)		VYF1430	SUPPORT PANEL UNIT	1	
331(4)		VXB0009	DAMPER SPRING UNIT	1	
332(4)		VYQ0331	LEG (R) UNIT	2	
333(4)		VKA0105	LEG (F)	2	
334(4)		VGK1863	LEG COLLAR	4	
335(4)		VJF0102	WIRE CLIP	1	
336(4)		VJF0022	WIRE SADDLE	1	
337(4)		VKC0354	MAIN HINGE CLIP	2	
338(4)		VJF0236	C.B.A. SUPPORTER	2	
339(4)		VHD0418	MAIN SCREW	1	
340(4)		VHD0168	CHASSIS MOUNT SCREW	1	
341(4)		VSC2623	HEAT SINK (O)	1	
342(4)		VKF1150	HEAT SINK COVER	1	
343(4)		VJR3	CLAMPER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
344(4)		VXA3838	POWER SHIELD PALTE (MAIN)	1	
			UNIT		
345(4)		VSC2621	POWER SHIELD PALTE (TOP)	1	
346(4)		VSC2622	POWER SHIELD PALTE (BOTTOM)	1	
347(4)		VMP2337	INLET ANGLE	1	
348(4)		VSC2960	HEAT SINK (P)	1	
349(4)		VGH1476	POWER NAME PLATE	1	
350(4)		VGQ1615	IC HOLDER	1	
351(4)		VMZ1455	INSULATION SHEET	1	
352(4)		VMC0357	Tr. HOLDER SPRING	1	
353(4)		VMZ1454	BARRIER (A)	1	
354(4)		VMZ1465	BARRIER (B)	1	
355(4)		VMZ1487	CAPACITOR COVER	1	
356(4)		VJH0510	RF & ANT. BOARD	1	
357(4)		VXA3708	F SHIELD PLATE UNIT	1	
358(4)		VMZ1317	POWER BARRIER	1	
400(5)		VQT3287	OPERATING INSTRUCTIONS	1	<!>
			(ENGLISH/GERMAN)		
400(5)		VQT3315	OPERATING INSTRUCTIONS	1	<!> NV-FS100EI
			(ITALIAN)		
401(5)		VQC1315	PROGRAMME SHEET	1	
402(5)		VJA0376	DIN RF CABLE	1	
403(5)		VEQ0993	REMOTE CONTROLLER UNIT	1	NV-FS100EG
403(5)		VEQ1014	REMOTE CONTROLLER UNIT	1	NV-FS100EI
404(5)		VJA0231	AUDIO CABLE	2	
405(5)		VJA0443	AC CORD	1	<!>
406(5)		VEQ0996	DIGITAL SCANNER UNIT	1	
407(5)		VJA0453	S-VIDEO 4P CABLE	1	
408(5)		VPK1065	ACCESSORIES PACKING	1	
409(5)		VPN2493	CUSHION (R)	1	
410(5)		VPN2494	CUSHION (L)	1	
411(5)		VPG4857	PACKING	1	NV-FS100EG
411(5)		VPG4876	PACKING	1	NV-FS100EI
450(6)		VYK2641	TOP COVER UNIT	1	NV-FS100EG
450(6)		VYK2672	TOP COVER UNIT	1	NV-FS100EI
451(6)		VKM1882	BOTTOM COVER	1	
452(6)		VKF1290	BATTERY COVER	1	
453(6)		VKW0878	IR WINDOW	1	
454(6)		VSP0468	RUBBER CONTACT	1	NV-FS100EG
454(6)		VSP0475	RUBBER CONTACT	1	NV-FS100EI
455(6)		VGU4813	JOG KNOB	1	
456(6)		VMC0465	JOG SPRING	1	
457(6)		VGU4814	SHUTTLE KNOB	1	
458(6)		VJR0498	ELECTRODE (A)	1	
459(6)		VJR0509	ELECTRODE (B)	1	
500(7)		VYK2644	TOP COVER UNIT	1	
501(7)		VKW0940	IR WINDOW	1	
502(7)		VGU4099	TRANSMISSION BUTTON	1	
503(7)		VGU4100	POWER SW KNOB	1	
504(7)		VKM1331	BOTTOM COVER	1	
505(7)		VJR0272	ELECTRODE (COMMON)	1	
506(7)		VJR0411	ELECTRODE (+)	1	
507(7)		VJR0412	ELECTRODE (-)	1	
508(7)		VKF1173	BATTERY COVER	1	
509(7)		VKM1332	SENSOR CAP	1	
			SERVICING FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE	1	(PAL)
		VFK0335	RETAINING RING REMOVER	1	(3mm/4mm)
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHIT GAUGE	1	
		VFK0328	H-POSITION ADJUSTMENT	1	
			SCREWDRIVER		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHIT ADJUSTMENT FIXTURE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	

4-3. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'▮'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03633A	MAIN C.B.A.	1	<!> (NLA) NV-FS100EG
					INCLUDING THE
					SERVO PACK C.B.A.
					(VEP02341A),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03634A),
					DDR SECAM PACK C.B.A.
					(VEP03673A),
					HQ PACK C.B.A.
					(VEP03635A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03641A),
					TV DEMODULATOR PACK
					C.B.A.(VEP07536K),
					DECODER PACK C.B.A.
					(VEP07537A),
					VPS PACK C.B.A.
					(VEP07563A),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04242H),
					AUDIO EQULIZER PACK
					C.B.A.(VEP00P10A).
		VEP03633B	MAIN C.B.A.	1	<!> (NLA) NV-FS100EI
					INCLUDING THE
					SERVO PACK C.B.A.
					(VEP02341A),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03634A),
					DDR SECAM PACK C.B.A.
					(VEP03673A),
					HQ PACK C.B.A.
					(VEP03635A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03641B),
					TV DEMODULATOR PACK
					C.B.A.(VEP07536K),
					DECODER PACK C.B.A.
					(VEP07537A),
					VPS PACK C.B.A.
					(VEP07563A),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04242H),
					AUDIO EQULIZER PACK
					C.B.A.(VEP00P10A).
		VEP02341A	SERVO PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP03634A	LUMINANCE & CHROMINANCE	1	(NLA)
			PACK C.B.A.		INCLUDING THE
					DDR SECAM PACK C.B.A.
					(VEP03673A).
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03673A	DDR SECAM PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP03635A	HQ PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP03641A	INPUT/OUTPUT PACK C.B.A.	1	(NLA) NV-FS100EG
					INCLUDED IN MAIN
					C.B.A.(VEP03633A).
		VEP03641B	INPUT/OUTPUT PACK C.B.A.	1	(NLA) NV-FS100EI
					INCLUDED IN MAIN
					C.B.A.(VEP03633B).
		VEP07536K	TV DEMODULATOR PACK C.B.A.	1	(NLA)
		VEP07537A	DECODER PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP07563A	VPS PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP04242H	Hi-Fi AUDIO PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP00P10A	AUDIO EQULIZER PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03633A/
					VEP03633B).
		VEP03639A	LUMINANCE & CHROMINANCE	1	(NLA) NV-FS100EG
			SEPARATION C.B.A.		INCLUDING THE
					CCD PACK C.B.A.
					(VEP03691A).
		VEP03639B	LUMINANCE & CHROMINANCE	1	(NLA) NV-FS100EI
			SEPARATION C.B.A.		INCLUDING THE
					CCD PACK C.B.A.
					(VEP03691A).
		VEP03691A	CCD PACK C.B.A.	1	(NLA)
					INCLUDED IN
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03639A/
					VEP03639B).
		VEP03677A	SUB LUMINANCE & CHROMINACE	1	(NLA)
			C.B.A.		INCLUDING THE
					1H DELAY CCD PACK
					C.B.A.(VEP03680A).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03680A	1H DELAY CCD PACK C.B.A.	1	(NLA)
					INCLUDED IN
					SUB LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03677A).
		VEP05149A	HEAD AMP C.B.A.	1	(NLA)
		VEP07566A	VPT INTERFACE C.B.A.	1	(NLA) NV-FS100EG
		VEP06580A	VR C.B.A.	1	(NLA)
					INCLUDING THE
					HEAD PHONE & MIC JACK
					C.B.A.(VEP00M29B).
		VEP00M29B	HEAD PHONE & MIC JACK	1	(NLA)
			C.B.A.		INCLUDED IN
					VR C.B.A.(VEP06580A).
		VEP07530A	TIMER C.B.A.	1	(NLA) NV-FS100EG
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06552A).
		VEP07530B	TIMER C.B.A.	1	(NLA) NV-FS100EI
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06552A).
		VEP06552A	IR RECEIVER C.B.A.	1	(NLA)
					INCLUDED IN TIMER
					C.B.A.(VEP07530A/
					VEP07530B).
		VEP06597A	JOG SHUTTLE C.B.A.	1	(NLA)
		VEP01381A	POWER C.B.A.	1	(NLA)
		VEP01397A	AUDIO POWER C.B.A.	1	(NLA)
		VEP00P23A	CYLINDER DRIVE C.B.A.	1	(NLA)
		VEP00K88C	FE HEAD AMP C.B.A.	1	(NLA)
		VEP00M86A	FG AMP C.B.A.	1	(NLA)
		VXA3825	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEK3578	PHOTO Tr.(S) C.B.A.	1	(NLA)
		-------	PHOTO Tr.(T) C.B.A.	1	(NLA)
					THIS PART IS INCLUDED
					IN SLIDE SW UNIT
					(VXA3498).
		VEP66107A	REMOTE CONTROLLER(A) C.B.A.	1	(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP66082A	REMOTE CONTROLLER(B) C.B.A.	1	(NLA)
		VEP66077C	DIGITAL SCANNER C.B.A.	1	(NLA)
	■	VEP03633A	MAIN C.B.A.		<!> (NLA) NV-FS100E
BP1003		VJP1253	CONNECTOR(MALE)	1	
BP1004		VJF0094	CONNECTOR	1	
BP3005		VJP1255	CONNECTOR(MALE)	1	
BP3007		VJP1257	CONNECTOR(MALE)	1	
BP3008		VJP1259	CONNECTOR(MALE)	1	
			CAPACITORS		
C301		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C302-04		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C305		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C306		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C307		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C308		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C309		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C311		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C312		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C313		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C316		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C317		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C318		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C320		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C322		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C324		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C325		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C326		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C329		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C330		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C332		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C333		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C334		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C335		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C336		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C337		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C338,39		ECEA0JK220	E.CAPACITOR 6.3V 22U	2	
C341		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C342		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C344		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C345		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C346		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C348		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C349		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C701		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C707		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C775		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C781		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C802		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C803,04		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C805		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C806		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C807		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C808		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C810		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C811		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C812		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C813		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C814		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C815		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C817		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C819		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C821		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C823		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C824		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C825		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C826		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C827		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C828		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C832		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C833		ECRHA020D41	TRIMMER	1	
C834		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C835		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C851		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C852		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C853		ECEA1AFS470	E.CAPACITOR 10V 47U	1	
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C856		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C859		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C1001		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C1002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C1003		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C1004		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C1005		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C1006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C1007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C1009		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C1010		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C1011		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C1012		ECEA1HU470	E.CAPACITOR 50V 47U	1	
C1013		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1014		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C2001		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2002		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2003		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C2201		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2204		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2205		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2206		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2207		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2208		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2209		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2210		ECQB1H332JH	P.CAPACITOR 50V 3300P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2211		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C2212		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2213		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2214		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2215		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2216		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2217		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2218		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2219		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2220		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2221		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2222		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2223		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2224		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2225		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2226		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2227,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2229		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C2230		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2231		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2232		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C2233-35		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2236		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2237-39		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2240		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2241		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2242		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C2243		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2244		ECSF1CE105	T.CAPACITOR 16V 1U	1	
C2245		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2246		ECEA10M47	E.CAPACITOR 10V 47U	1	
C2247		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2248,49		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	2	
C2250		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2251		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2262		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2263		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2264		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2265		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2266		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2267,68		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	2	
C2269		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2270		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2272		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2273		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2274		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2301		ECQV1H333JZ	P.CAPACITOR 50V 0.033U	1	
C2302		ECEA1CKS220	E.CAPACITOR 16V 22U	1	
C2303		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2304		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2305		ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C2306		ECEA0JSN220	E.CAPACITOR 6.3V 22U	1	
C2307		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C2308		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2309		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C2310		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
C2311		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C2312,13		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C3001		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3002,03		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C3004-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3012		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3013		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3014		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3015		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3016		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3018		ECEA1AKN470	E.CAPACITOR 10V 47U	1	
C3019		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3020		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3021		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3022		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3024		ECEA1AU471	E.CAPACITOR 10V 470U	1	
C3025		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3026		ECEA1AU471	E.CAPACITOR 10V 470U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3028		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3032,33		ECEA1CK101	E.CAPACITOR 16V 100U	2	
C3034		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3036		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3038		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3039,40		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3041,42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3043		ECUM1H060DCN	T.CAPACITOR 50V 6P	1	
C3044		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3045		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3046		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3047		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3048		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3301		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C3302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3303		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3304		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3305		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3306		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3307		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3308,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3310,11		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C3312,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3314		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3315		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C3316		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3317		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3318		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3319		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3321		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C3322		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C3323		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3324		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3351-53		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C3354,55		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3913		ECEA1CU331	E.CAPACITOR 16V 330U	1	
C3914		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3915		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3916-19		ECEA1CK220	E.CAPACITOR 16V 22U	4	
C4001		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4004		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4005		ECCD2H121J	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C4014		ECUM1H122KBN	C.CAPACITOR 50V 1200P	1	
C4015		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M47	E.CAPACITOR 10V 47U	1	
C4018		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4022		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C4023		ECUM1H221JN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4027		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C4028		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4101		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4103		ECEA1HPK010	E.CAPACITOR 50V 1U	1	
C4104		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4106		ECEA1APK470	E.CAPACITOR 10V 47U	1	
C4107		ECEA1HPK010	E.CAPACITOR 50V 1U	1	
C4108		ECEA1CK101	E.CAPACITOR 16V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4110,11		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C4112		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C4114,15		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C4118		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4120		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4121		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C4122		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4123		ECUM1H221KBN	C.CAPACITOR CH 50V 220P	1	
C4124		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4125		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4126		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4127-30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C4131		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C4201		ECQV1H333JZ	P.CAPACITOR 50V 0.033U	1	
C4202		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C4203		ECQB1H682JH	P.CAPACITOR 50V 6800P	1	
C4204		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C4205		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4501		VCEA1VAG4R7	E.CAPACITOR 35V 4.7U	1	
C4502		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4503		ECQB1H102JA	P.CAPACITOR 50V 1000P	1	
C4504		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4505		ECQB1H682JA	P.CAPACITOR 50V 6800P	1	
C4506		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4507		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4508		VCEA1EAE4R7	E.CAPACITOR 25V 4.7U	1	
C4509		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4510		ECHR1H103JZ	.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4512		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4513,14		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C4515		VCEA1HAG3R3	E.CAPACITOR 50V 3.3U	1	
C4516		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4517		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4518,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4520		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4522		VCEA1HAE3R3	E.CAPACITOR 50V 3.3U	1	
C4525		ECEA1CPZ220	E.CAPACITOR 16V 22U	1	
C4526		VCEA1CAH101	E.CAPACITOR 16V 100U	1	
C4527		VCEA1AAE101	E.CAPACITOR 10V 100U	1	
C4528		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C4529		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4530		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4531		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C4532		VCEA1CAE471	E.CAPACITOR 16V 470U	1	
C4534		VCEA1AAE101	E.CAPACITOR 10V 100U	1	
C4535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4536		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C4537		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4537		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4538		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4539		ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	
C4540-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C4543		ECUM1H122JN	C.CAPACITOR 50V 1200P	1	
C4551		VCEA1EAG4R7	E.CAPACITOR 25V 4.7U	1	
C4552		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4553		ECQB1H102JA	P.CAPACITOR 50V 1000P	1	
C4554		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4555		ECQB1H682JA	P.CAPACITOR 50V 6800P	1	
C4556		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4557		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4558		VCEA1EAE4R7	E.CAPACITOR 25V 4.7U	1	
C4559		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4560		ECHR1H103JZ	.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4562		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4563,64		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C4565		VCEA1EAG3R3	E.CAPACITOR 25V 3.3U	1	
C4566		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4567		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4568,69		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4570		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4572		VCEA1HAE3R3	E.CAPACITOR 50V 3.3U	1	
C4574,75		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C4593		ECUM1H122JN	C.CAPACITOR 50V 1200P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4903,04		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4907,08		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4909,10		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C4911,12		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4913,14		ECQB1H682JH	P.CAPACITOR 50V 6800P	2	
C4915,16		ECQB1H183JH	P.CAPACITOR 50V 0.018U	2	
C4918		VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C4920,21		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4922		VCEA1AAC221	E.CAPACITOR 10V 220U	1	
C4923		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4924-26		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C4927		VCEA1AAC101	E.CAPACITOR 10V 100U	1	
C4928		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4929		VCEA1VAC470	E.CAPACITOR 35V 47U	1	
C4930,31		VCEA1HAC010	E.CAPACITOR 50V 1U	2	
C4932		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4933		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4936		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5002		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C5003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5004		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C5005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5006		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C5007		ECUM1H391JN	C.CAPACITOR CH 50V 390P	1	
C5008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5009		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C5010		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C5011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5012		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C5013		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5014		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5015,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C5018-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C5021		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C5022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5023		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5024		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5026		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5027,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5030		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5032		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C5033		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5035		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C5036		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C5037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5038		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C5039		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C5040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5041		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5042		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C6001		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6002		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6003		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6004		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6005		ECUM1H151KBN	C.CAPACITOR CH 50V 150P	1	
C6006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C6007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6008		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C6010,11		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6012		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C6013,14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6015		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	1	
C6016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6018,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6020-23		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	4	
C6024-28		ECUM1H221KBN	C.CAPACITOR CH 50V 220P	5	
C6029		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C6030		ECEA1CU222	E.CAPACITOR 16V 2200U	1	
C6033		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6034		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C6037,38		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6039		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6041		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6043		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6044		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6045		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6046		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C6047		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C7302		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306		ECQB1H102KH	P.CAPACITOR 50V 1000P	1	
C7307		ECQB1H822KH	P.CAPACITOR 50V 8200P	1	
C7308		ECQB1H102KH	P.CAPACITOR 50V 1000P	1	
C7309		ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310		ECEA16Z10	E.CAPACITOR 16V 10U	1	
C7311		ECEA50ZR47	E.CAPACITOR 50V 0.47U	1	
C7312		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7313		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7314		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7315		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7316		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7317		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7320,21		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7322		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C7323,24		ECQB1H223JH	P.CAPACITOR 50V 0.022U	2	
C7325		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7331		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C7332,33		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C7334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7335		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7336		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7338		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7339		ECQB1H103KH	P.CAPACITOR 50V 0.01U	1	
C7340		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C7342		ECQB1H183JH	P.CAPACITOR 50V 0.018U	1	
C7343		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7344		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7345		ECQB1H103KH	P.CAPACITOR 50V 0.01U	1	
C7346		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C7348		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECQB1H332JH	P.CAPACITOR 50V 3300P	1	
C7668		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7672		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C7685		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7801		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C7802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7803		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C7804		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7805		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7806		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C7815		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7853,54		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7855,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7860		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C8301,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8303		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C8304,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8306		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C8307,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8309		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8310		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8311		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C8312		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8313		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C8314		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C8315		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D710		MA3100L	DIODE	1	
D773		11ES1	DIODE	1	
D801		MA151K	DIODE	1	
D802		MA151WA	DIODE	1	
D803		MA151K	DIODE	1	
D1001		AK04	DIODE	1	
D1003,04		MA723	DIODE	2	
D1005		MA165	DIODE	1	
D1010,11		MA165	DIODE	2	
D1012		MA154WK	DIODE	1	
D1014		MA154WK	DIODE	1	
D1015		MA165	DIODE	1	
D2201-04		MA165	DIODE	4	
D2205		MA4056M	DIODE	1	
D2212		MA165	DIODE	1	
D2216,17		MA165	DIODE	2	
D2301-04		MA165	DIODE	4	
D2306,07		MA165	DIODE	2	
D3001-03		MA165	DIODE	3	
D3004		MA723	DIODE	1	
D3006		MA165	DIODE	1	
D3301		MA151K	DIODE	1	
D3302		MA3091M	DIODE	1	
D3306		MA151K	DIODE	1	
D3901,02		MA165	DIODE	2	
D4003		MA165	DIODE	1	
D4101		MA165	DIODE	1	
D4104		MA165	DIODE	1	
D4202		MA165	DIODE	1	
D4501		MA151WK	DIODE	1	
D5001		MA151K	DIODE	1	
D6001		MA165	DIODE	1	
D6003,04		MA165	DIODE	2	
D6005		11ES1	DIODE	1	
D6007-16		MA165	DIODE	10	
D6017		MA4091M	DIODE	1	
D6019-22		MA165	DIODE	4	
D6025		AK04	DIODE	1	
D6026		MA165	DIODE	1	
D6027		MA4075M	DIODE	1	
D6029		MA154WK	DIODE	1	
D6032		MA165	DIODE	1	
D6033		MA723	DIODE	1	
D6035-38		MA156	DIODE	4	
D7302		MA151A	DIODE	1	
D7303		MA28WA	DIODE	1	
D7672		MA3300H	DIODE	1	
D7851		MA151K	DIODE	1	
D8301		MA151K	DIODE	1	
D8303		MA151WK	DIODE	1	
DL801		VLD0147	DELAY	1	
DL8301		VLD0089	DELAY	1	
FL301		ELB4L121	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0639	FILTER	1	
FL304		ELB4M022	FILTER	1	
FL801		VLF0299	FILTER	1	
FL851		VLF0143	FILTER	1	
FL3301		VLF0413	FILTER	1	
FL3302		ELB4R049	FILTER	1	
FL4501,02		VLF0406	FILTER	2	
FL4503		VLF0697	FILTER	1	
FL5001		ELB5A066	FILTER	1	
FL5002		ELB4K114	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
FL5003		ELB4R031	FILTER	1	
FL5004		ELB4K114	FILTER	1	
IC301		VEFH07C	IC	1	
IC302		M52055FP	IC	1	
IC303		VEFH05BT	IC	1	
IC304		NJM2233BMA	IC	1	
IC701		M51366SP	IC	1	
IC801		VCR0284	IC	1	
IC851		BA7025L	IC	1	
IC2201		AN3726K	IC	1	
IC2202		MN4013BS	IC	1	
IC2203		MN1280R	IC	1	
IC2204		MN4052BS	IC	1	
IC2205		MN6742VCWK	IC	1	
IC2206		BA6435S	IC	1	
IC2301		LM358PS	IC	1	
IC2302		MN4066BS	IC	1	
IC2303		UPC393G2	IC	1	
IC3001		M52055FP	IC	1	
IC3002		VCR0281	IC	1	
IC3301		AN3495K	IC	1	
IC3302		MSM6871RS	IC	1	
IC3307		BA7004	IC	1	
IC3901		M51292FP	IC	1	
IC4001		BA7766AS	IC	1	
IC4101		RC4560DD	IC	1	
IC4501		BA7700K1	IC	1	
IC4502		UPC78L05J	IC	1	
IC4901		M51293FP	IC	1	
IC4902		UPC78L06J	IC	1	
IC4903		AN79N06	IC	1	
IC5001		M52054SP	IC	1	
IC5002		AN6308S	IC	1	
IC6001		MN188166VHS	IC	1	
IC6002		MN1280R	IC	1	
IC6003		MC14011BF	IC	1	
IC6004		LM339N	IC	1	
IC6005		AN6609N	IC	1	
IC6006		LM393PS	IC	1	
IC6007		MC14519BF	IC	1	
IC7301		TDA3803A	IC	1	
IC7302,03		AN5215	IC	2	
IC7801		SAA4700	IC	1	
IC7851		MN158413VHW	IC	1	
IC7852		MN1280S	IC	1	
L302		VLQEL06F101K	COIL 100UH	1	
L303		VLQEL05F680K	COIL 68UH	1	
L304		VLQEL05F560K	COIL 56UH	1	
L305-08		VLQEL05F101K	COIL 100UH	4	
L310		VLQEL05F220K	COIL 22UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L711		ELQTR68XB	COIL 0.68UH	1	
L712		VLQ0305J1R2	COIL 1.2UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		ELESP560KA	COIL 56H	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L801-03		VLQEL05F101K	COIL 100UH	3	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F150K	COIL 15UH	1	
L809,10		VLQEL05F681K	COIL 680UH	2	
L811		VLQEL05F331K	COIL 330UH	1	
L812		VLQEL05F470K	COIL 47UH	1	
L814		VLQEL05F330J	COIL 33UH	1	
L851		VLQEL05F101K	COIL 100UH	1	
L1010		VLQEL05F102K	COIL 1000UH	1	
L2002		VLP0099	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L2201-03		VLQEL05F101K	COIL 100UH	3	
L2204		VLQEL05F102K	COIL 1000UH	1	
L3005		VLQEL05F151K	COIL 150UH	1	
L3006		VLQEL05F820K	COIL 82UH	1	
L3007,08		VLQEL05F101K	COIL 100UH	2	
L3009		VLQ0398	COIL	1	
L3010		VLQEL05F681K	COIL 680UH	1	
L3301-03		VLQEL05F101K	COIL 100UH	3	
L3309		VLQEL05F101K	COIL 100UH	1	
L3312		VLQEL05F101K	COIL 100UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L4102		VLQEL05F1R0K	COIL 1UH	1	
L4104		VLQEL05F101K	COIL 100UH	1	
L4105		VLP0085	COIL	1	
L4201		VLQEL07F153J	COIL 15MH	1	
L4501,02		VLQEL05F101K	COIL 100UH	2	
L4901-04		VLQEL05F102K	COIL 1000UH	4	
L4905,06		VLQEL05F101K	COIL 100UH	2	
L4907		VLQ0407102K	COIL	1	
L5001		VLQEL05F101K	COIL 100UH	1	
L5002		VLQEL05F181K	COIL 180UH	1	
L5003		VLQEL05F270K	COIL 27UH	1	
L5004,05		VLQEL05F5R6K	COIL 5.6UH	2	
L5006		VLQEL05F120K	COIL 12UH	1	
L5007		VLQEL05F101K	COIL 100UH	1	
L5008		VLQEL05F100K	COIL 10UH	1	
L5009		VLQEL05F100K	COIL 10UH	1	
L5010		VLQEL05F220K	COIL 22UH	1	
L5012,13		VLQEL05F101K	COIL 100UH	2	
L7301		ELESP102KA	COIL 1000UH	1	
L7302		ELESP680KA	COIL 68UH	1	
L7304		VTQ0014	COIL	1	
L8301		VLQEL05F101K	COIL 100UH	1	
L8302,03		VLQEL05F150K	COIL 15UH	2	
L8304		VLQEL05F270K	COIL 27UH	1	
L8305		VLQEL05F151K	COIL 150UH	1	
P1001		VJP2593	CONNECTOR(MALE)	1	
P1253		VJH1230T	CONNECTOR	1	
P2001		VJP1242T	CONNECTOR(MALE) 2P	1	
P2002		VJF0093	CONNECTOR	1	
P2201		VJP1245T	CONNECTOR(MALE) 5P	1	
P2203		VJP1148	CONNECTOR(MALE)	1	
P3001		VJP1237T	CONNECTOR(MALE) 10P	1	
P3002		VJP1235T	CONNECTOR(MALE) 8P	1	
P3003		VJP1237T	CONNECTOR(MALE) 10P	1	
P3201		VJP1244T	CONNECTOR(MALE) 4P	1	
P3202		VJP1246T	CONNECTOR(MALE) 6P	1	
P4001		VJP1231T	CONNECTOR(MALE) 4P	1	
P4002		VJP1236T	CONNECTOR(MALE) 9P	1	
P4003		VJP1236T	CONNECTOR(MALE) 9P	1	
P4004		VJP1229T	CONNECTOR(MALE) 2P	1	
P4005		VJP1188T	CONNECTOR(MALE)	1	
P4901		VJP1242T	CONNECTOR(MALE) 2P	1	
P6003		VJP1932T	CONNECTOR(MALE)	1	
PK2201		VJP1865	CONNECTOR(MALE)	1	
PK2201		VJS1865	CONNECTOR(FEMALE)	1	
PK2202		VJP1865	CONNECTOR(MALE)	1	
PK2202		VJS1865	CONNECTOR(FEMALE)	1	
PK2203		VJP1861	CONNECTOR(MALE)	1	
PK2203		VJS1861	CONNECTOR(FEMALE)	1	
PK2204		VJP1859	CONNECTOR(MALE)	1	
PK2204		VJS1859	CONNECTOR(FEMALE)	1	
PK3011		VJP1862	CONNECTOR(MALE)	1	
PK3011		VJS1862	CONNECTOR(FEMALE)	1	
PK3012		VJP1862	CONNECTOR(MALE)	1	
PK3012		VJS1862	CONNECTOR(FEMALE)	1	
PK3013		VJP1861	CONNECTOR(MALE)	1	
PK3013		VJS1861	CONNECTOR(FEMALE)	1	
PK3021		VJP1858	CONNECTOR(MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
PK3021		VJS1858	CONNECTOR(FEMALE)	1	
PK3022		VJP1865	CONNECTOR(MALE)	1	
PK3022		VJS1865	CONNECTOR(FEMALE)	1	
Q301		2SD601	TRANSISTOR CHIP	1	
Q302		2SC2295	TRANSISTOR	1	
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q801		2SB709	TRANSISTOR CHIP	1	
Q804		2SD601	TRANSISTOR CHIP	1	
Q1001		2SC4024	TRANSISTOR	1	
Q1002		2SD601	TRANSISTOR CHIP	1	
Q1003		2SD601A	TRANSISTOR	1	
Q1004		2SD1330	TRANSISTOR	1	
Q1005		2SD1330	TRANSISTOR	1	(S)
Q2201		2SD601	TRANSISTOR CHIP	1	
Q2202		2SC2295	TRANSISTOR	1	
Q2203		2SD602	TRANSISTOR CHIP	1	
Q2204-09		2SD601	TRANSISTOR CHIP	6	
Q2301		2SD601	TRANSISTOR CHIP	1	
Q3001		2SD602	TRANSISTOR	1	
Q3003		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3005-07		2SD601	TRANSISTOR CHIP	3	
Q3008		2SC2295	TRANSISTOR	1	
Q3009		2SB709	TRANSISTOR	1	(S)
Q3301-04		2SC2295	TRANSISTOR	4	
Q3310		2SC2295	TRANSISTOR	1	
Q4001		2SD639	TRANSISTOR	1	(R)
Q4103		2SD1328	TRANSISTOR	1	
Q4201-05		2SD1306	TRANSISTOR	5	
Q4502,03		2SD1306	TRANSISTOR	2	
Q4504		2SD601	TRANSISTOR CHIP	1	
Q5001		2SC2295	TRANSISTOR	1	
Q5002,03		2SD601	TRANSISTOR CHIP	2	
Q5004,05		2SC2295	TRANSISTOR	2	
Q5006		2SB709	TRANSISTOR CHIP	1	
Q5007-13		2SC2295	TRANSISTOR	7	
Q5014		2SB709	TRANSISTOR CHIP	1	
Q5015		2SC2295	TRANSISTOR	1	
Q5016		2SC2295	TRANSISTOR	1	
Q6002		2SB790	TRANSISTOR	1	(R,S)
Q6003		2SB709	TRANSISTOR CHIP	1	
Q6004		2SB790	TRANSISTOR	1	(R,S)
Q6006		2SD893	TRANSISTOR	1	
Q6007		2SD973	TRANSISTOR	1	
Q6008		2SD636	TRANSISTOR	1	
Q6011		2SD1856	TRANSISTOR	1	
Q6012		2SD636	TRANSISTOR	1	
Q6013-15		2SD601	TRANSISTOR CHIP	3	
Q6017		2SD601	TRANSISTOR CHIP	1	
Q7301		2SD601	TRANSISTOR	1	(S,T)
Q7302		2SD1328	TRANSISTOR	1	
Q7303		2SD1328	TRANSISTOR	1	
Q7304,05		2SD601	TRANSISTOR CHIP	2	
Q7306		2SC2404	TRANSISTOR CHIP	1	(C,D)
Q7307		2SD1328	TRANSISTOR	1	
Q8301		2SD601	TRANSISTOR CHIP	1	
Q8302		2SC2295	TRANSISTOR	1	
QR301-04		UN2213	TRANSISTOR-RESISTOR	4	
QR305		UN2110	TRANSISTOR-RESISTOR	1	
QR307		UN2213	TRANSISTOR-RESISTOR	1	
QR310,11		UN2213	TRANSISTOR-RESISTOR	2	
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR801-05		UN2213	TRANSISTOR-RESISTOR	5	
QR806		UN2113	TRANSISTOR-RESISTOR	1	
QR1001		UN2211	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR1002		UN2213	TRANSISTOR-RESISTOR	1	
QR1006		UN2211	TRANSISTOR-RESISTOR	1	
QR2001		UN2211	TRANSISTOR-RESISTOR	1	
QR2201,02		UN2117	TRANSISTOR-RESISTOR	2	
QR2206-09		UN2213	TRANSISTOR-RESISTOR	4	
QR2210		UN2212	TRANSISTOR-RESISTOR	1	
QR2213		UN2112	TRANSISTOR-RESISTOR	1	
QR2214		UN2213	TRANSISTOR-RESISTOR	1	
QR2215		UN2113	TRANSISTOR-RESISTOR	1	
QR2301		UN2213	TRANSISTOR-RESISTOR	1	
QR2302		UN2113	TRANSISTOR-RESISTOR	1	
QR2303-06		UN2213	TRANSISTOR-RESISTOR	4	
QR2307		UN2113	TRANSISTOR-RESISTOR	1	
QR3001,02		UN2213	TRANSISTOR-RESISTOR	2	
QR3003,04		UN2111	TRANSISTOR-RESISTOR	2	
QR3005		UN2213	TRANSISTOR-RESISTOR	1	
QR3006		UN2212	TRANSISTOR-RESISTOR	1	
QR3007		UN2214	TRANSISTOR-RESISTOR	1	
QR3008		UN2111	TRANSISTOR-RESISTOR	1	
QR3009		UN2213	TRANSISTOR-RESISTOR	1	
QR3011		UN2213	TRANSISTOR-RESISTOR	1	
QR3012		DTC363EK	TRANSISTOR-RESISTOR	1	
QR3013		UN211D	TRANSISTOR-RESISTOR	1	
QR3014		UN2211	TRANSISTOR-RESISTOR	1	
QR3301-03		UN2213	TRANSISTOR-RESISTOR	3	
QR3901		UN2213	TRANSISTOR-RESISTOR	1	
QR3902		UN2113	TRANSISTOR-RESISTOR	1	
QR4001		UN2213	TRANSISTOR-RESISTOR	1	
QR4101		UN2213	TRANSISTOR-RESISTOR	1	
QR4102		UN2113	TRANSISTOR-RESISTOR	1	
QR4103,04		UN2112	TRANSISTOR-RESISTOR	2	
QR4105		UN2213	TRANSISTOR-RESISTOR	1	
QR4501,02		UN2213	TRANSISTOR-RESISTOR	2	
QR5001-04		DTC363EK	TRANSISTOR-RESISTOR	4	
QR5006		UN2213	TRANSISTOR-RESISTOR	1	
QR6003,04		UN2213	TRANSISTOR-RESISTOR	2	
QR6005-09		UN2211	TRANSISTOR-RESISTOR	5	
QR6010		UN2213	TRANSISTOR-RESISTOR	1	
QR6011		UN2211	TRANSISTOR-RESISTOR	1	
QR6013		UN2111	TRANSISTOR-RESISTOR	1	
QR6014		UN2113	TRANSISTOR-RESISTOR	1	
QR6015-17		UN2213	TRANSISTOR-RESISTOR	3	
QR6018		UN2113	TRANSISTOR-RESISTOR	1	
QR6019,20		UN2213	TRANSISTOR-RESISTOR	2	
QR6021		UN2113	TRANSISTOR-RESISTOR	1	
QR6022		UN2111	TRANSISTOR-RESISTOR	1	
QR6024		UN2113	TRANSISTOR-RESISTOR	1	
QR6025		UN2212	TRANSISTOR-RESISTOR	1	
QR6027		UN2213	TRANSISTOR-RESISTOR	1	
QR6028-31		UN2212	TRANSISTOR-RESISTOR	4	
QR7301,02		UN2214	TRANSISTOR-RESISTOR	2	
QR7312-14		UN2211	TRANSISTOR-RESISTOR	3	
QR7851		UN2211	TRANSISTOR-RESISTOR	1	
QR7852		UN2213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R302		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R306		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R307		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R308		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R309		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R310		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R312		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R313		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R314		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R315		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R316		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R317		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R318		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R319		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R320,21		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R322		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R323-25		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R326		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R327		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R328		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R330		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R331		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R332		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R337		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R338		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R339		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R340		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R341		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R712		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R713		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R717		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718		ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719,20		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R722		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R723		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R724		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R725		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R726		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R737		ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R740		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R741		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R743		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R750		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R774		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R781		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R782		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R801		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R802		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R803		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R808		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R809,10		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R811		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R812		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R813		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R814		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R815		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R816		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R817		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R818		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R819		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R820		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R821		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R825		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R826		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R827		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R851		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R852		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R853		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R854		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R855		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R856		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1002		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R1003		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R1004		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R1005		ERDS1TJ822	C.RESISTOR 1/2W 8.2K	1	
R1006		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1007		ERJ6GMYG912	M.RESISTOR CH 1/10W 9.1K	1	
R1008		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R1009		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1010		ERJ6GMYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1011		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R1012		ERG2ANJ681	M.RESISTOR 2W 680	1	
R1013		ERG2ANJ821	M.RESISTOR 2W 820	1	
R2001		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R2002		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2005		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2006		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2007		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2201		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2202		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R2203		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2204		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2205		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2206		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2207		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2208		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2209		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2210		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R2211-13		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2214		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2215,16		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2217		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2218		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2219		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2220		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2221		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2222		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2223,24		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2225		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R2226		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2227		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2228		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2229-33		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	5	
R2236		ERJ6GMYG362	M.RESISTOR CH 1/10W 3.6K	1	
R2237		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2238,39		ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2240		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2241,42		ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2243		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2244		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2245		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2246		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2247		ERJ6GMYG334	M.RESISTOR CH 1/10W 330K	1	
R2248		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2249		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2250		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2251		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R2252		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2253,54		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R2255		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2256		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2257		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R2258		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2259		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2260		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2261		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R2266		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2288		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2289		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2290		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2292		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2301		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2302		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2303		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2304		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2305		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2306		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2307,08		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	2	
R2309		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2310		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2311		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2312		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2313		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2314		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2315		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2316		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2317		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2318		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2319		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2320		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2321		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2322		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R2323		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2324-26		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	3	
R2327		ERJ6GMYG243	M.RESISTOR CH 1/10W 24K	1	
R2328		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2329		ERJ6GMYG333	M.RESISTOR CH 1/10W 33K	1	
R2330,31		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2332,33		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	2	
R2334		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2335		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2336		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R3001		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3002		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3003		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3004		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3011		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3012		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3013		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3014		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3015		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3017		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3018-20		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R3024		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3025,26		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3029		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3030		ERJ6GMYG222	M.RESISTOR CH 1/10W 2.2K	1	
R3031		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3032		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R3033,34		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3035		ERJ6GMYG202	M.RESISTOR CH 1/10W 2K	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037-39		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R3040		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3041		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3042		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3043		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3044,45		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3046-48		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R3049		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3050		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3051,52		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3053		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3054,55		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3056		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3301		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3302		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3303		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3304		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3305		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3306		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3307		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3308		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3309		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3310		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3311		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3312		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3313		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3314		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3315		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3316		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3317		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3318		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3319		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3320		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3321		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3344		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3345		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3346,47		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R3348		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3349,50		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3901,02		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3908		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3909-18		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	10	
R3919,20		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	2	
R3921		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3922		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	1	
R3923		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3924		ERD2FCG220	C.RESISTOR 2W 22	1	
R3925		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R4001		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4002		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4003		ERJ6GMYJ203	M.RESISTOR CH 1/10W 2K	1	
R4004,05		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4007		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R4008		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4010		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4012		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4016		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4020		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4021		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4022		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4030		ERJ6GMYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R4031		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4044		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4104		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4105,06		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4107		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4108		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4109		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4110		EROS2CKG2403	M.RESISTOR 1/4W 240K	1	
R4111		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4112		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4113,14		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	2	
R4115		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4116		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4117		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4118		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4121		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4123		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4201		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4202		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4203		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4204		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4205		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4206		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4207		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4208-13		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	6	
R4501		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4502		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4503		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4504		VRE0034E112	.RESISTOR 1/4W 1.1K	1	
R4505		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4506		ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4507		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4508		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	1	
R4510		ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R4511		ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4512		VRE0034E113	.RESISTOR 1/16W 11K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4513		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4514		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4515		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4516		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4517		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4520		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4521		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4522		ERJ6GMYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R4523		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4525,26		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4527		VRE0034E104	.RESISTOR 1/4W 100K	1	
R4528		VRE0034E393	.RESISTOR 1/4W 39K	1	
R4529		ERJ6GEYG123	M.RESISTOR CH 1/10W 12K	1	
R4530		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R4533		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4535		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4536		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4537		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4539		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4540		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4541		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R4551		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4552		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4553		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4554		VRE0034E112	.RESISTOR 1/4W 1.1K	1	
R4555		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4556		ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4557		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4558		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	1	
R4560		ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R4561		ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4562		VRE0034E912	.RESISTOR 1/4W 9.1K	1	
R4563		VRE0034E49B	.RESISTOR 1/4W 49	1	
R4564		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4565		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4566		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4567		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4570,71		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R4573		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4574		ERJ6GMYJ270	M.RESISTOR CH 1/10W 27	1	
R4575		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4576		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4577		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4902,03		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4908,09		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R4910,11		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4912,13		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R4916,17		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R4924		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4925		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4926		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4927		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4928		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4929,30		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4931		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R4932		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4933		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4934		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4935		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4936		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4937		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4938		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4939		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4940		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4941		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4943-46		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R5001		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R5002		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5003-05		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	3	
R5006		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R5007		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5008		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5009		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5010		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5011		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R5012-14		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R5015		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5016		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5017		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5018		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5019		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5020		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5021		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5022		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5023		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5024		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5025		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5026		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R5027		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5028		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5029		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5030		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R5031		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5033-35		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R5036,37		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	2	
R5038		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5039		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5040		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5041		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R5042		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R5043		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R5044		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R5045		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R5046-48		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R5049		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5050		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5051		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R5052		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5053		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5054		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5055,56		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R5057		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R5058		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6001		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6005		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6006,07		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R6008		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6009		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6010,11		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R6016		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6017		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6018		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6019		ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R6020		ERG2SJ150	M.RESISTOR 2W 15	1	
R6021		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6023		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6029		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6030		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R6031		ERJ6GMYG242	M.RESISTOR CH1/10W 2.4K	1	
R6032		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6033		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6034		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R6035		ERSF30JR90	M.RESISTOR 0.9	1	
R6036		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6038		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6039,40		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R6042		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6043,44		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6045,46		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6047		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6048-50		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R6051,52		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	2	
R6054		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R6055		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6056		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R6057		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6058		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6059		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6060		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6061		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6062,63		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	2	
R6064-66		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	3	
R6067		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R6068		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6069		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R6071		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6072		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6073-75		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6076		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6077,78		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R6079		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6080		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6081,82		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6083		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6084		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6085		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6087		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6088		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6089		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6090		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6091		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R6092		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R6093		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6094-98		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	5	
R6101		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6102		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6105		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6106		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6107,08		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R6109		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6111		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6112		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6113		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6114		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R6115		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6119-22		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6123		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R6128,29		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6130,31		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R6132		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6133,34		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6135		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6136,37		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R6138		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7302		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7303		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7304		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7305		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7306		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7307		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7308		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7311		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7312		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7313		ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1	
R7314,15		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R7316		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7317		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7318		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R7321,22		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R7323		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7324		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R7325		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R7329		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7330		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7331		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7333		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7334-37		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	4	
R7338		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7339		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R7340		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7341		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7342		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7343,44		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7345		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7346		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7347		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7348		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7349		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7350		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R7351		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7656		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7676		ERG1SJ332	M.RESISTOR 1W 3.3K	1	
R7801		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7802		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R7803,04		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7805		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7806		ERJ6GEYG362	M.RESISTOR CH 1/10W 3.6K	1	
R7807		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7851		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7852		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7860		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8301		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8302		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8303,04		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8305,06		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R8307		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8308		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8309		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8310		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8311		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8312		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8313		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8314		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8315,16		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
SW3901		VSS0162	SWITCH	1	
SW3902		VSS0196	SWITCH	1	
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T710		EULBEF023	TRANSFORMER	1	
T851		ELM7Q207A	COIL	1	
T4001		EIQ7QF013Q	TRANSFORMER	1	
T7301		EIR7QG001B	IF TRANSFORMER	1	
T7302,03		EIL7QH011Q	TRANSFORMER	2	
T7304		EIS5EC007A	TRANSFORMER	1	
T7305		EIS5EC005A	TRANSFORMER	1	
VR301		EVNDRAA00B13	V.RESISTOR 1K	1	
VR302		EVND1AA00B52	V.RESISTOR 500	1	
VR303		EVN32CA00B52	V.RESISTOR 500	1	
VR701,02		EVM4LGA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR801		EVND1AA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2006		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2009,10		EVND4AA00B25	V.RESISTOR 200K	2	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2013		EVNDRAA00B23	V.RESISTOR 2K	1	
VR2018,19		EVNDRAA00B15	V.RESISTOR 100K	2	
VR3001		EVNDRAA00B23	V.RESISTOR 2K	1	
VR3301		EVN4YCA00B13	V.RESISTOR 1K	1	
VR3302		EVNDRAA00B24	V.RESISTOR 20K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
VR4004		EVNDRAA00B53	V.RESISTOR 5K	1	
VR4501		EVN3DCA00B14	V.RESISTOR 10K	1	
VR4502		EVN3ACA00B24	V.RESISTOR 20K	1	
VR4503		EVNDRAA00B23	V.RESISTOR 2K	1	
VR4505		EVND1AA00B14	V.RESISTOR 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4507		EVN3ACA00B24	V.RESISTOR 20K	1	
VR4509		EVN3DCA00BS3	V.RESISTOR	1	
VR4510		EVN4LCA00B25	V.RESISTOR 200K	1	
VR5001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR5002		EVND1AA00B54	V.RESISTOR 50K	1	
VR5003		EVND4AA00B24	VARIABLE 20K	1	
VR5004,05		EVN49CA00B52	V.RESISTOR 500	2	
VR7301		EVN38CA00B14	V.RESISTOR 10K	1	
VR7326		EVN38CA00B52	V.RESISTOR 500	1	
VR7328		EVN38CA00B52	V.RESISTOR 500	1	
VR7340		EVNE4AA00B14	V.RESISTOR 10K	1	
VR7342		EVNE4AA00B53	V.RESISTOR 5K	1	
VR7344		EVNE4AA00B14	V.RESISTOR 10K	1	
VR8301		EVN4YCA00B52	V.RESISTOR 500	1	
VR8302		EVNDRAA00B13	V.RESISTOR 1K	1	
X710		EFCH38MSP4	CRYSTAL OSCILLATOR	1	
X711		EFCS5R5MW5	FILTER	1	
X715		ELB5A043	FILTER	1	
X716		EFCA31R90M1	CRYSTAL OSCILLATOR	1	31.75MHZ
X717		EFCA40R40M1	FILTER	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X2201		VSX0225	CRYSTAL OSCILLATOR	1	
X3301		VSX0316	CRYSTAL OSCILLATOR	1	
X3303		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0306	CRYSTAL OSCILLATOR	1	
X6002		VSQ0565	SENSOR	1	
X7301,02		EFCS5R5MS5B	CRYSTAL OSCILLATOR	2	
X7303,04		EFCS5R74MS5B	CRYSTAL OSCILLATOR	2	
X7305		ELB5A016	FILTER	1	
X7851		EFOA4R0M03C2	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK PLATE	1	
		VSC1323	HEAT SINK	1	(FOR Q1001)
		ENC17966	RF CONVERTER	1	<!>
		VJH0510	RF CONVERTER JACK PLATE	1	
		VJF0442	CLAMPER	1	
		VMC0075	HEAT SINK FIX SPRING	1	(FOR IC2206)
		VSC2734	HEAT SINK	1	(FOR IC2206)
		VMZ1352	HEAT SINK COVER	1	(FOR SERVO PACK)
		VJF0368	SERVO PACK C.B.A. SUPPOTOR	2	(FOR SERVO PACK)
		VJF0368	LUMINANCE & CHROMINANCE	2	(FOR LUMI&CHRO PACK)
			PACK C.B.A. SUPPORTOR		
		VSC2908	SHIELD CASE (TOP)	1	(FOR HQ PACK)
		VSC2909	SHIELD CASE (MAIN)	1	(FOR HQ PACK)
		VSC2910	SHIELD CASE (BOTTOM)	1	(FOR HQ PACK)
		VJF0368	HQ PACK C.B.A. SUPPORTOR	2	(FOR HQ PACK)
		VJR0164	PACK PIN (10P)	4	(FOR I/O PACK)
		VEJ0899	REAR JACK	1	(FOR I/O PACK)
		VGU2707	SW KNOB	2	(FOR I/O PACK)
		ENV57846H6	TUNER	1	<!> (FOR TV DEMO.)
		VSC2713	SHIELD CASE (MAIN)	1	(FOR TV DEMO.)
		VSC2712	SHIELD CASE (TOP)	1	(FOR TV DEMO.)
		VSC2714	SHIELD CASE (BOTTOM)	1	(FOR TV DEMO.)
	■	VEP03633B	MAIN C.B.A.		<!> (NLA) NV-FS100E
BP1003		VJP1253	CONNECTOR(MALE)	1	
BP1004		VJF0094	CONNECTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
BP3007		VJP1257	CONNECTOR(MALE)	1	
BP3008		VJP1259	CONNECTOR(MALE)	1	
			CAPACITORS		
C301		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C302-04		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C305		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C306		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C307		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C308		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C309		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C311		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C312		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C313		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C316		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C317		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C318		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C320		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C322		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C324		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C325		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C326		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C329		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C330		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C332		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C333		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C334		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C335		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C336		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C337		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C338,39		ECEA0JK220	E.CAPACITOR 6.3V 22U	2	
C341		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C342		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C344		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C345		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C346		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C348		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C349		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C701		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C707		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C775		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C781		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C802		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C803,04		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C805		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C806		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C807		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C808		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C810		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C811		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C812		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C813		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C814		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C815		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C817		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C819		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C821		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C823		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C824		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C825		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C826		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C827		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C828		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C832		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C833		ECRHA020D41	TRIMMER	1	
C834		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C835		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C851		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C852		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C853		ECEA1AFS470	E.CAPACITOR 10V 47U	1	
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C856		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C859		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C1001		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C1002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C1003		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C1004		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C1005		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C1006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C1007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C1009		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C1010		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C1011		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C1012		ECEA1HU470	E.CAPACITOR 50V 47U	1	
C1013		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1014		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C2001		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2002		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2003		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C2201		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2204		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2205		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2206		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2207		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2208		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2209		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2210		ECQB1H332JH	P.CAPACITOR 50V 3300P	1	
C2211		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C2212		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2213		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2214		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2215		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2216		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2217		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2218		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2219		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2220		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2221		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2222		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2223		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2224		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2225		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2226		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2227,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2229		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C2230		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2231		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2232		ECEA1CKS470	E.CAPACITOR 16V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2233-35		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2236		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2237-39		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2240		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2241		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2242		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C2243		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2244		ECSF1CE105	T.CAPACITOR 16V 1U	1	
C2245		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2246		ECEA10M47	E.CAPACITOR 10V 47U	1	
C2247		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2248,49		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	2	
C2250		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2251		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2262		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2263		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2264		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2265		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2266		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2267,68		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	2	
C2269		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2270		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2272		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2273		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2274		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2301		ECQV1H333JZ	P.CAPACITOR 50V 0.033U	1	
C2302		ECEA1CKS220	E.CAPACITOR 16V 22U	1	
C2303		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2304		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2305		ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C2306		ECEA0JSN220	E.CAPACITOR 6.3V 22U	1	
C2307		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C2308		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2309		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C2310		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
C2311		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C2312,13		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C3001		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3002,03		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C3004-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3012		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3013		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3014		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3015		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3016		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3018		ECEA1AKN470	E.CAPACITOR 10V 47U	1	
C3019		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3020		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3021		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3022		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3024		ECEA1AU471	E.CAPACITOR 10V 470U	1	
C3025		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3026		ECEA1AU471	E.CAPACITOR 10V 470U	1	
C3028		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3032,33		ECEA1CK101	E.CAPACITOR 16V 100U	2	
C3034		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3036		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3038		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3039,40		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3041,42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3043		ECUM1H060DCN	T.CAPACITOR 50V 6P	1	
C3044		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3045		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3046		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3047		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3048		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3301		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C3302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3303		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3304		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3305		ECEA1CK101	E.CAPACITOR 16V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3306		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3307		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3308,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3310,11		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C3312,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3314		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3315		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C3316		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3317		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3318		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3319		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3321		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C3322		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C3323		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3324		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3351-53		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C3354,55		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3913		ECEA1CU331	E.CAPACITOR 16V 330U	1	
C3914		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3915		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3916-19		ECEA1CK220	E.CAPACITOR 16V 22U	4	
C4001		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4004		ECQP1222JZ	P.CAPACITOR 0.0022U	1	
C4005		ECCD2H121J	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C4014		ECUM1H122KBN	C.CAPACITOR 50V 1200P	1	
C4015		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M47	E.CAPACITOR 10V 47U	1	
C4018		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4022		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C4023		ECUM1H221JN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4027		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C4028		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4101		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4103		ECEA1HPK010	E.CAPACITOR 50V 1U	1	
C4104		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4106		ECEA1APK470	E.CAPACITOR 10V 47U	1	
C4107		ECEA1HPK010	E.CAPACITOR 50V 1U	1	
C4108		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C4110,11		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C4112		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C4114,15		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C4118		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4120		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4121		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C4122		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4123		ECUM1H221KBN	C.CAPACITOR CH 50V 220P	1	
C4124		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4125		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4126		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4127-30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C4131		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C4201		ECQV1H333JZ	P.CAPACITOR 50V 0.033U	1	
C4202		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C4203		ECQB1H682JH	P.CAPACITOR 50V 6800P	1	
C4204		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C4205		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4501		VCEA1VAG4R7	E.CAPACITOR 35V 4.7U	1	
C4502		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4503		ECQB1H102JA	P.CAPACITOR 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4504		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4505		ECQB1H682JA	P.CAPACITOR 50V 6800P	1	
C4506		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4507		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4508		VCEA1EAE4R7	E.CAPACITOR 25V 4.7U	1	
C4509		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4510		ECHR1H103JZ	.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4512		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4513,14		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C4515		VCEA1HAG3R3	E.CAPACITOR 50V 3.3U	1	
C4516		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4517		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4518,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4520		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4522		VCEA1HAE3R3	E.CAPACITOR 50V 3.3U	1	
C4525		ECEA1CPZ220	E.CAPACITOR 16V 22U	1	
C4526		VCEA1CAH101	E.CAPACITOR 16V 100U	1	
C4527		VCEA1AAE101	E.CAPACITOR 10V 100U	1	
C4528		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C4529		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4530		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4531		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C4532		VCEA1CAE471	E.CAPACITOR 16V 470U	1	
C4534		VCEA1AAE101	E.CAPACITOR 10V 100U	1	
C4535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4536		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C4537		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4537		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4538		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4539		ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	
C4540-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C4543		ECUM1H122JN	C.CAPACITOR 50V 1200P	1	
C4551		VCEA1EAG4R7	E.CAPACITOR 25V 4.7U	1	
C4552		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4553		ECQB1H102JA	P.CAPACITOR 50V 1000P	1	
C4554		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4555		ECQB1H682JA	P.CAPACITOR 50V 6800P	1	
C4556		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4557		ECHR1H223JZ	.CAPACITOR 50V 0.022U	1	
C4558		VCEA1EAE4R7J	E.CAPACITOR 25V 4.7U	1	
C4559		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4560		ECHR1H103JZ	.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4562		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4563,64		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C4565		VCEA1EAG3R3	E.CAPACITOR 25V 3.3U	1	
C4566		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4567		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4568,69		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4570		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4572		VCEA1HAE3R3	E.CAPACITOR 50V 3.3U	1	
C4574,75		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C4593		ECUM1H122JN	C.CAPACITOR 50V 1200P	1	
C4903,04		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4907,08		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4909,10		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C4911,12		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4913,14		ECQB1H682JH	P.CAPACITOR 50V 6800P	2	
C4915,16		ECQB1H183JH	P.CAPACITOR 50V 0.018U	2	
C4918		VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C4920,21		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4922		VCEA1AAC221	E.CAPACITOR 10V 220U	1	
C4923		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4924-26		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C4927		VCEA1AAC101	E.CAPACITOR 10V 100U	1	
C4928		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4929		VCEA1VAC470	E.CAPACITOR 35V 47U	1	
C4930,31		VCEA1HAC010	E.CAPACITOR 50V 1U	2	
C4932		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4933		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4936		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5002		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C5003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5004		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C5005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5006		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C5007		ECUM1H391JN	C.CAPACITOR CH 50V 390P	1	
C5008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5009		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C5010		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C5011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5012		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C5013		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5014		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5015,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C5018-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C5021		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C5022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5023		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5024		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5026		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5027,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5030		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5032		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C5033		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5035		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C5036		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C5037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5038		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C5039		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C5040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5041		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5042		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C6001		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6002		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6003		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6004		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6005		ECUM1H151KBN	C.CAPACITOR CH 50V 150P	1	
C6006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C6007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6008		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C6010,11		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6012		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C6013,14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6015		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	1	
C6016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6018,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6020-23		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	4	
C6024-28		ECUM1H221KBN	C.CAPACITOR CH 50V 220P	5	
C6029		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C6030		ECEA1CU222	E.CAPACITOR 16V 2200U	1	
C6033		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6034		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C6037,38		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6039		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6041		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6043		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6044		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6045		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6046		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C6047		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C7302		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306		ECQB1H102KH	P.CAPACITOR 50V 1000P	1	
C7307		ECQB1H822KH	P.CAPACITOR 50V 8200P	1	
C7308		ECQB1H102KH	P.CAPACITOR 50V 1000P	1	
C7309		ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310		ECEA16Z10	E.CAPACITOR 16V 10U	1	
C7311		ECEA50ZR47	E.CAPACITOR 50V 0.47U	1	
C7312		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7313		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7314		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7315		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7316		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7317		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7320,21		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7322		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C7323,24		ECQB1H223JH	P.CAPACITOR 50V 0.022U	2	
C7325		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7331		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C7332,33		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C7334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7335		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7336		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7338		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7339		ECQB1H103KH	P.CAPACITOR 50V 0.01U	1	
C7340		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C7342		ECQB1H183JH	P.CAPACITOR 50V 0.018U	1	
C7343		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7344		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C7345		ECQB1H103KH	P.CAPACITOR 50V 0.01U	1	
C7346		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C7348		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECQB1H332JH	P.CAPACITOR 50V 3300P	1	
C7668		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7672		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C7685		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7801		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C7802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7803		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C7804		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7805		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7806		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C7815		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7853,54		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7855,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7860		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C8301,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8303		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C8304,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8306		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C8307,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8309		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8310		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8311		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C8312		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8313		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8314		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C8315		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D710		MA3100L	DIODE	1	
D773		11ES1	DIODE	1	
D801		MA151K	DIODE	1	
D802		MA151WA	DIODE	1	
D803		MA151K	DIODE	1	
D1001		AK04	DIODE	1	
D1003,04		MA723	DIODE	2	
D1005		MA165	DIODE	1	
D1010,11		MA165	DIODE	2	
D1012		MA154WK	DIODE	1	
D1014		MA154WK	DIODE	1	
D1015		MA165	DIODE	1	
D2201-04		MA165	DIODE	4	
D2205		MA4056M	DIODE	1	
D2212		MA165	DIODE	1	
D2216,17		MA165	DIODE	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D2301-04		MA165	DIODE	4	
D2306,07		MA165	DIODE	2	
D3001-03		MA165	DIODE	3	
D3004		MA723	DIODE	1	
D3006		MA165	DIODE	1	
D3008,09		MA165	DIODE	2	
D3301		MA151K	DIODE	1	
D3302		MA3091M	DIODE	1	
D3306		MA151K	DIODE	1	
D3901,02		MA165	DIODE	2	
D4003		MA165	DIODE	1	
D4101		MA165	DIODE	1	
D4103,04		MA165	DIODE	2	
D4202		MA165	DIODE	1	
D4501		MA151WK	DIODE	1	
D5001		MA151K	DIODE	1	
D6001		MA165	DIODE	1	
D6003,04		MA165	DIODE	2	
D6005		11ES1	DIODE	1	
D6007-16		MA165	DIODE	10	
D6017		MA4091M	DIODE	1	
D6019-22		MA165	DIODE	4	
D6025		AK04	DIODE	1	
D6026		MA165	DIODE	1	
D6027		MA4075M	DIODE	1	
D6029		MA154WK	DIODE	1	
D6032		MA165	DIODE	1	
D6033		MA723	DIODE	1	
D6035-38		MA156	DIODE	4	
D7302		MA151A	DIODE	1	
D7303		MA28WA	DIODE	1	
D7672		MA3300H	DIODE	1	
D7851		MA151K	DIODE	1	
D8301		MA151K	DIODE	1	
D8303		MA151WK	DIODE	1	
DL801		VLD0147	DELAY	1	
DL8301		VLD0089	DELAY	1	
FL301		ELB4L121	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0639	FILTER	1	
FL304		ELB4M022	FILTER	1	
FL801		VLF0299	FILTER	1	
FL851		VLF0143	FILTER	1	
FL3301		VLF0413	FILTER	1	
FL3302		ELB4R049	FILTER	1	
FL4501,02		VLF0406	FILTER	2	
FL4503		VLF0697	FILTER	1	
FL5001		ELB5A066	FILTER	1	
FL5002		ELB4K114	FILTER	1	
FL5003		ELB4R031	FILTER	1	
FL5004		ELB4K114	FILTER	1	
IC301		VEFH07C	IC	1	
IC302		M52055FP	IC	1	
IC303		VEFH05BT	IC	1	
IC304		NJM2233BMA	IC	1	
IC701		M51366SP	IC	1	
IC801		VCR0284	IC	1	
IC851		BA7025L	IC	1	
IC2201		AN3726K	IC	1	
IC2202		MN4013BS	IC	1	
IC2203		MN1280R	IC	1	
IC2204		MN4052BS	IC	1	
IC2205		MN6742VCWK	IC	1	
IC2206		BA6435S	IC	1	
IC2301		LM358PS	IC	1	
IC2302		MN4066BS	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC2303		UPC393G2	IC	1	
IC3001		M52055FP	IC	1	
IC3002		VCR0281	IC	1	
IC3301		AN3495K	IC	1	
IC3302		MSM6871RS	IC	1	
IC3307		BA7004	IC	1	
IC3901		M51292FP	IC	1	
IC4001		BA7766AS	IC	1	
IC4101		RC4560DD	IC	1	
IC4501		BA7700K1	IC	1	
IC4502		UPC78L05J	IC	1	
IC4901		M51293FP	IC	1	
IC4902		UPC78L06J	IC	1	
IC4903		AN79N06	IC	1	
IC5001		M52054SP	IC	1	
IC5002		AN6308S	IC	1	
IC6001		MN188166VHS	IC	1	
IC6002		MN1280R	IC	1	
IC6003		MC14011BF	IC	1	
IC6004		LM339N	IC	1	
IC6005		AN6609N	IC	1	
IC6006		LM393PS	IC	1	
IC6007		MC14519BF	IC	1	
IC7301		TDA3803A	IC	1	
IC7302,03		AN5215	IC	2	
IC7801		SAA4700	IC	1	
IC7851		MN158413VHW	IC	1	
IC7852		MN1280S	IC	1	
L302		VLQEL06F101K	COIL 100UH	1	
L303		VLQEL05F680K	COIL 68UH	1	
L304		VLQEL05F560K	COIL 56UH	1	
L305-08		VLQEL05F101K	COIL 100UH	4	
L310		VLQEL05F220K	COIL 22UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L711		ELQTR68XB	COIL 0.68UH	1	
L712		VLQ0305J1R2	COIL 1.2UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		ELESP560KA	COIL 56H	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L801-03		VLQEL05F101K	COIL 100UH	3	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F150K	COIL 15UH	1	
L809,10		VLQEL05F681K	COIL 680UH	2	
L811		VLQEL05F331K	COIL 330UH	1	
L812		VLQEL05F470K	COIL 47UH	1	
L814		VLQEL05F330J	COIL 33UH	1	
L851		VLQEL05F101K	COIL 100UH	1	
L1010		VLQEL05F102K	COIL 1000UH	1	
L2002		VLP0085	COIL	1	
L2201-03		VLQEL05F101K	COIL 100UH	3	
L2204		VLQEL05F102K	COIL 1000UH	1	
L3005		VLQEL05F151K	COIL 150UH	1	
L3006		VLQEL05F820K	COIL 82UH	1	
L3007,08		VLQEL05F101K	COIL 100UH	2	
L3009		VLQ0398	COIL	1	
L3010		VLQEL05F681K	COIL 680UH	1	
L3301-03		VLQEL05F101K	COIL 100UH	3	
L3309		VLQEL05F101K	COIL 100UH	1	
L3312		VLQEL05F101K	COIL 100UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L4102		VLQEL05F1R0K	COIL 1UH	1	
L4104		VLQEL05F101K	COIL 100UH	1	
L4105		VLP0085	COIL	1	
L4201		VLQEL07F153J	COIL 15MH	1	
L4501,02		VLQEL05F101K	COIL 100UH	2	
L4901-04		VLQEL05F102K	COIL 1000UH	4	
L4905,06		VLQEL05F101K	COIL 100UH	2	
L4907		VLQ0407102K	COIL	1	
L5001		VLQEL05F101K	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L5002		VLQEL05F181K	COIL 180UH	1	
L5003		VLQEL05F270K	COIL 27UH	1	
L5004,05		VLQEL05F5R6K	COIL 5.6UH	2	
L5006		VLQEL05F120K	COIL 12UH	1	
L5007		VLQEL05F101K	COIL 100UH	1	
L5008		VLQEL05F100K	COIL 10UH	1	
L5009		VLQEL05F100K	COIL 10UH	1	
L5010		VLQEL05F220K	COIL 22UH	1	
L5012,13		VLQEL05F101K	COIL 100UH	2	
L7301		ELESP102KA	COIL 1000UH	1	
L7302		ELESP680KA	COIL 68UH	1	
L7304		VTQ0014	COIL	1	
L8301		VLQEL05F101K	COIL 100UH	1	
L8302,03		VLQEL05F150K	COIL 15UH	2	
L8304		VLQEL05F270K	COIL 27UH	1	
L8305		VLQEL05F151K	COIL 150UH	1	
P1001		VJP2593	CONNECTOR(MALE)	1	
P1253		VJH1230T	CONNECTOR	1	
P2001		VJP1242T	CONNECTOR(MALE) 2P	1	
P2002		VJF0093	CONNECTOR	1	
P2201		VJP1245T	CONNECTOR(MALE) 5P	1	
P2203		VJP1148	CONNECTOR(MALE)	1	
P3001		VJP1237T	CONNECTOR(MALE) 10P	1	
P3002		VJP1235T	CONNECTOR(MALE) 8P	1	
P3003		VJP1237T	CONNECTOR(MALE) 10P	1	
P3201		VJP1244T	CONNECTOR(MALE) 4P	1	
P4001		VJP1231T	CONNECTOR(MALE) 4P	1	
P4002		VJP1236T	CONNECTOR(MALE) 9P	1	
P4003		VJP1236T	CONNECTOR(MALE) 9P	1	
P4004		VJP1229T	CONNECTOR(MALE) 2P	1	
P4005		VJP1188T	CONNECTOR(MALE)	1	
P4901		VJP1242T	CONNECTOR(MALE) 2P	1	
P6003		VJP1932T	CONNECTOR(MALE)	1	
P7405		VJS2571A010	CONNECTOR	1	
PK2201		VJP1865	CONNECTOR(MALE)	1	
PK2201		VJS1865	CONNECTOR(FEMALE)	1	
PK2202		VJP1865	CONNECTOR(MALE)	1	
PK2202		VJS1865	CONNECTOR(FEMALE)	1	
PK2203		VJP1861	CONNECTOR(MALE)	1	
PK2203		VJS1861	CONNECTOR(FEMALE)	1	
PK2204		VJP1859	CONNECTOR(MALE)	1	
PK2204		VJS1859	CONNECTOR(FEMALE)	1	
PK3011		VJP1862	CONNECTOR(MALE)	1	
PK3011		VJS1862	CONNECTOR(FEMALE)	1	
PK3012		VJP1862	CONNECTOR(MALE)	1	
PK3012		VJS1862	CONNECTOR(FEMALE)	1	
PK3013		VJP1861	CONNECTOR(MALE)	1	
PK3013		VJS1861	CONNECTOR(FEMALE)	1	
PK3021		VJP1858	CONNECTOR(MALE)	1	
PK3021		VJS1858	CONNECTOR(FEMALE)	1	
PK3022		VJP1865	CONNECTOR(MALE)	1	
PK3022		VJS1865	CONNECTOR(FEMALE)	1	
Q301		2SD601	TRANSISTOR CHIP	1	
Q302		2SC2295	TRANSISTOR	1	
Q703		2SD601	TRANSISTOR	1	(S,T
Q710		2SC2377	TRANSISTOR	1	(C,
Q712		2SD638	TRANSISTOR	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q801		2SB709	TRANSISTOR CHIP	1	
Q804		2SD601	TRANSISTOR CHIP	1	
Q1001		2SC4024	TRANSISTOR	1	
Q1002		2SD601	TRANSISTOR CHIP	1	
Q1003		2SD601A	TRANSISTOR	1	
Q1004		2SD1330	TRANSISTOR	1	
Q1005		2SD1330	TRANSISTOR	1	(S)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q2201		2SD601	TRANSISTOR CHIP	1	
Q2202		2SC2295	TRANSISTOR	1	
Q2203		2SD602	TRANSISTOR CHIP	1	
Q2204-09		2SD601	TRANSISTOR CHIP	6	
Q2301		2SD601	TRANSISTOR CHIP	1	
Q3001		2SD602	TRANSISTOR	1	
Q3003		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3005-07		2SD601	TRANSISTOR CHIP	3	
Q3008		2SC2295	TRANSISTOR	1	
Q3009		2SB709	TRANSISTOR	1	(S)
Q3301-04		2SC2295	TRANSISTOR	4	
Q3310		2SC2295	TRANSISTOR	1	
Q4001		2SD639	TRANSISTOR	1	(R)
Q4103		2SD1328	TRANSISTOR	1	
Q4201-05		2SD1306	TRANSISTOR	5	
Q4502,03		2SD1306	TRANSISTOR	2	
Q4504		2SD601	TRANSISTOR CHIP	1	
Q5001		2SC2295	TRANSISTOR	1	
Q5002,03		2SD601	TRANSISTOR CHIP	2	
Q5004,05		2SC2295	TRANSISTOR	2	
Q5006		2SB709	TRANSISTOR CHIP	1	
Q5007-13		2SC2295	TRANSISTOR	7	
Q5014		2SB709	TRANSISTOR CHIP	1	
Q5015		2SC2295	TRANSISTOR	1	
Q5016		2SC2295	TRANSISTOR	1	
Q6002		2SB790	TRANSISTOR	1	(R,S)
Q6003		2SB709	TRANSISTOR CHIP	1	
Q6004		2SB790	TRANSISTOR	1	(R,S)
Q6006		2SD893	TRANSISTOR	1	
Q6007		2SD973	TRANSISTOR	1	
Q6008		2SD636	TRANSISTOR	1	
Q6011		2SD1856	TRANSISTOR	1	
Q6012		2SD636	TRANSISTOR	1	
Q6013-15		2SD601	TRANSISTOR CHIP	3	
Q6017		2SD601	TRANSISTOR CHIP	1	
Q7301		2SD601	TRANSISTOR	1	(S,T)
Q7302		2SD1328	TRANSISTOR	1	
Q7303		2SD1328	TRANSISTOR	1	
Q7304,05		2SD601	TRANSISTOR CHIP	2	
Q7306		2SC2404	TRANSISTOR CHIP	1	(C,D)
Q7307		2SD1328	TRANSISTOR	1	
Q8301		2SD601	TRANSISTOR CHIP	1	
Q8302		2SC2295	TRANSISTOR	1	
QR301-04		UN2213	TRANSISTOR-RESISTOR	4	
QR305		UN2110	TRANSISTOR-RESISTOR	1	
QR307		UN2213	TRANSISTOR-RESISTOR	1	
QR310,11		UN2213	TRANSISTOR-RESISTOR	2	
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR801-05		UN2213	TRANSISTOR-RESISTOR	5	
QR806		UN2113	TRANSISTOR-RESISTOR	1	
QR1001		UN2211	TRANSISTOR-RESISTOR	1	
QR1002		UN2213	TRANSISTOR-RESISTOR	1	
QR1006		UN2211	TRANSISTOR-RESISTOR	1	
QR2001		UN2211	TRANSISTOR-RESISTOR	1	
QR2201,02		UN2117	TRANSISTOR-RESISTOR	2	
QR2206-09		UN2213	TRANSISTOR-RESISTOR	4	
QR2210		UN2212	TRANSISTOR-RESISTOR	1	
QR2213		UN2112	TRANSISTOR-RESISTOR	1	
QR2214		UN2213	TRANSISTOR-RESISTOR	1	
QR2215		UN2113	TRANSISTOR-RESISTOR	1	
QR2301		UN2213	TRANSISTOR-RESISTOR	1	
QR2302		UN2113	TRANSISTOR-RESISTOR	1	
QR2303-06		UN2213	TRANSISTOR-RESISTOR	4	
QR2307		UN2113	TRANSISTOR-RESISTOR	1	
QR3001,02		UN2213	TRANSISTOR-RESISTOR	2	
QR3003,04		UN2111	TRANSISTOR-RESISTOR	2	
QR3005		UN2213	TRANSISTOR-RESISTOR	1	
QR3006		UN2212	TRANSISTOR-RESISTOR	1	
QR3007		UN2214	TRANSISTOR-RESISTOR	1	
QR3008		UN2111	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR3009		UN2213	TRANSISTOR-RESISTOR	1	
QR3012		DTC363EK	TRANSISTOR-RESISTOR	1	
QR3013		UN211D	TRANSISTOR-RESISTOR	1	
QR3014		UN2211	TRANSISTOR-RESISTOR	1	
QR3301-03		UN2213	TRANSISTOR-RESISTOR	3	
QR3901		UN2213	TRANSISTOR-RESISTOR	1	
QR3902		UN2113	TRANSISTOR-RESISTOR	1	
QR4001		UN2213	TRANSISTOR-RESISTOR	1	
QR4101		UN2213	TRANSISTOR-RESISTOR	1	
QR4102		UN2113	TRANSISTOR-RESISTOR	1	
QR4103,04		UN2112	TRANSISTOR-RESISTOR	2	
QR4105		UN2213	TRANSISTOR-RESISTOR	1	
QR4501,02		UN2213	TRANSISTOR-RESISTOR	2	
QR5001-04		DTC363EK	TRANSISTOR-RESISTOR	4	
QR5006		UN2213	TRANSISTOR-RESISTOR	1	
QR6003,04		UN2213	TRANSISTOR-RESISTOR	2	
QR6005-09		UN2211	TRANSISTOR-RESISTOR	5	
QR6010		UN2213	TRANSISTOR-RESISTOR	1	
QR6011		UN2211	TRANSISTOR-RESISTOR	1	
QR6013		UN2111	TRANSISTOR-RESISTOR	1	
QR6014		UN2113	TRANSISTOR-RESISTOR	1	
QR6015-17		UN2213	TRANSISTOR-RESISTOR	3	
QR6018		UN2113	TRANSISTOR-RESISTOR	1	
QR6019,20		UN2213	TRANSISTOR-RESISTOR	2	
QR6021		UN2113	TRANSISTOR-RESISTOR	1	
QR6022		UN2111	TRANSISTOR-RESISTOR	1	
QR6024		UN2113	TRANSISTOR-RESISTOR	1	
QR6025		UN2212	TRANSISTOR-RESISTOR	1	
QR6027		UN2213	TRANSISTOR-RESISTOR	1	
QR6028-31		UN2212	TRANSISTOR-RESISTOR	4	
QR7301,02		UN2214	TRANSISTOR-RESISTOR	2	
QR7312-14		UN2211	TRANSISTOR-RESISTOR	3	
QR7851		UN2211	TRANSISTOR-RESISTOR	1	
QR7852		UN2213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R302		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R306		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R307		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R308		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R309		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R310		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R312		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R313		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R314		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R315		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R316		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R317		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R318		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R319		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R320,21		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R322		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R323-25		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R326		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R327		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R328		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R330		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R331		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R332		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R337		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R338		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R339		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R340		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R341		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R712		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R713		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R717		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718		ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719,20		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R722		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R723		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R724		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R725		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R726		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R737		ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R740		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R741		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R743		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R750		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R774		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R781		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R782		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R801		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R802		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R803		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R808		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R809,10		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R811		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R812		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R813		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R814		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R815		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R816		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R817		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R818		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R819		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R820		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R821		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R825		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R826		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R827		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R851		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R852		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R853		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R854		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R855		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R856		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1002		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R1003		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R1004		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R1005		ERDS1TJ822	C.RESISTOR 1/2W 8.2K	1	
R1006		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R1007		ERJ6GMYG912	M.RESISTOR CH 1/10W 9.1K	1	
R1008		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R1009		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1010		ERJ6GMYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1011		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R1012		ERG2ANJ681	M.RESISTOR 2W 680	1	
R1013		ERG2ANJ821	M.RESISTOR 2W 820	1	
R2001		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R2002		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2005		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2006		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2007		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2201		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2202		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R2203		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2204		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2205		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2206		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2207		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2208		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2209		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2210		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R2211-13		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2214		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2215,16		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2217		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2218		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2219		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2220		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2221		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2222		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2223,24		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2225		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R2226		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2227		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2228		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2229-33		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	5	
R2236		ERJ6GMYG362	M.RESISTOR CH 1/10W 3.6K	1	
R2237		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2238,39		ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2240		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2241,42		ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2243		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2244		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2245		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2246		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2247		ERJ6GMYG334	M.RESISTOR CH 1/10W 330K	1	
R2248		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2249		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2250		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2251		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R2252		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2253,54		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R2255		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2256		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2257		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R2258		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2259		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2260		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2261		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R2266		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2288		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2289		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2290		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2292		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2301		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2302		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2303		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2304		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2305		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2306		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2307,08		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	2	
R2309		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2310		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2311		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2312		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2313		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2314		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2315		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2316		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2317		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2318		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2319		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2320		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2321		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2322		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R2323		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2324-26		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	3	
R2327		ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R2328		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2329		ERJ6GMYG823	M.RESISTOR CH 1/10W 82K	1	
R2330,31		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2332,33		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	2	
R2334		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2335		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2336		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R3001		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3002		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3003		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3004		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3011		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3012		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3013		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3014		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3015		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3017		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3018-20		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R3024		ERJ6GMY0R00	M.RESISTOR CH 1/10W 0.00	1	
R3025,26		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3029		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3030		ERJ6GMYG222	M.RESISTOR CH 1/10W 2.2K	1	
R3031		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3032		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R3033,34		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3035		ERJ6GMYG202	M.RESISTOR CH 1/10W 2K	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037-39		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R3040		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3041		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3042		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3043		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3044,45		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3046-48		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R3049		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3050		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3051,52		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3053		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3054,55		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3056		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3301		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3302		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3303		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3304		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3305		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3306		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3307		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3308		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3309		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3310		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3311		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3312		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3313		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3314		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3315		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3316		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3317		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3318		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3319		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3320		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3321		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3344		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3345		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3346,47		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R3348		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3349,50		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3901,02		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3908		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3909-16		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	8	
R3919,20		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	2	
R3921		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3922		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	1	
R3923		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3924		ERD2FCG220	C.RESISTOR 2W 22	1	
R3925		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R4001		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4002		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4003		ERJ6GMYJ203	M.RESISTOR CH 1/10W 2K	1	
R4004,05		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4007		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R4008		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4009		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4010		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4012		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4016		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4020		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4021		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4022		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4030		ERJ6GMYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R4031		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4044		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4104		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4105,06		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4107		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4108		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4109		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4110		EROS2CKG2403	M.RESISTOR 1/4W 240K	1	
R4111		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4112		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4113,14		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	2	
R4115		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4116		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4117		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4118		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4121		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4123		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4201		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4202		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4203		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4204		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4205		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4206		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4207		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4208-13		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	6	
R4501		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4502		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4503		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4504		VRE0034E112	.RESISTOR 1/4W 1.1K	1	
R4505		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4506		ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4507		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4508		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	1	
R4510		ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R4511		ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4512		VRE0034E113	.RESISTOR 1/16W 11K	1	
R4513		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4514		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4515		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4516		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4517		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4520		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4521		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4522		ERJ6GMYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R4523		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4525,26		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4527		VRE0034E104	.RESISTOR 1/4W 100K	1	
R4528		VRE0034E393	.RESISTOR 1/4W 39K	1	
R4529		ERJ6GEYG123	M.RESISTOR CH 1/10W 12K	1	
R4530		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R4533		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4535		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4536		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4537		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4539		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4540		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4541		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R4551		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4552		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4553		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4554		VRE0034E112	.RESISTOR 1/4W 1.1K	1	
R4555		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4556		ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4557		ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4558		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	1	
R4560		ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R4561		ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4562		VRE0034E912	.RESISTOR 1/4W 9.1K	1	
R4563		VRE0034E49B	.RESISTOR 1/4W 49	1	
R4564		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4565		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4566		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4567		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4570,71		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R4573		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4574		ERJ6GMYJ270	M.RESISTOR CH 1/10W 27	1	
R4575		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4576		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4577		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4902,03		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4908,09		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R4910,11		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4912,13		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R4916,17		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R4924		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4925		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4926		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4927		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4928		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4929,30		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4931		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R4932		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4933		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4934		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4935		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4936		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4937		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4938		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4939		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4940		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4941		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4943-46		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R5001		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R5002		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5003-05		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	3	
R5006		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R5007		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5008		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5009		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5010		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5011		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R5012-14		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R5015		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5016		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5017		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5018		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5019		ERJ6GEYJ561	M.RESISTOR CH.1/10W 560	1	
R5020		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5021		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5022		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5023		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5024		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5025		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5026		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R5027		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5028		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5029		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5030		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R5031		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5033-35		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R5036,37		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R5038		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5039		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5040		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5041		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R5042		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R5043		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R5044		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R5045		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R5046-48		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R5049		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5050		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5051		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R5052		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5053		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5054		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5055,56		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R5057		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R5058		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6001		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6005		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6006,07		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R6008		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6009		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6010,11		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R6016		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6017		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6018		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6019		ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R6020		ERG2SJ150	M.RESISTOR 2W 15	1	
R6021		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6023		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6029		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6030		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R6031		ERJ6GMYG242	M.RESISTOR CH 1/10W 2.4K	1	
R6032		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6033		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6034		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R6035		ERSF30JR90	M.RESISTOR 0.9	1	
R6036		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6038		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6039,40		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R6042		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6043,44		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6045,46		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6047		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6048-50		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R6051,52		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	2	
R6054		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R6055		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6056		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R6057		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6058		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6059		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6060		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6061		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6062,63		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	2	
R6064-66		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	3	
R6067		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R6068		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6069		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R6071		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6072		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6073-75		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6076		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6077,78		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R6079		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6080		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6081,82		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6083		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6084		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6085		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6087		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6088		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6089		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6090		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6091		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R6092		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R6093		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6094-98		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	5	
R6101		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6102		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6105		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6106		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6107,08		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R6109		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6111		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6112		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6113		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6114		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R6115		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6119-22		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6123		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R6128,29		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6130,31		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R6132		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6133,34		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6135		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6136,37		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R6138		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7302		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7303		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7304		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7305		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7306		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7307		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7308		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7311		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7312		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7313		ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1	
R7314,15		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R7316		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7317		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7318		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R7321,22		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R7323		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7324		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R7325		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R7329		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7330		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7331		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7333		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7334-37		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	4	
R7338		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7339		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R7340		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7341		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7342		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7343,44		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7345		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7346		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7347		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7348		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7349		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7350		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R7351		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7656		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7676		ERG1SJ332	M.RESISTOR 1W 3.3K	1	
R7801		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7802		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R7803,04		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7805		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7806		ERJ6GEYG362	M.RESISTOR CH 1/10W 3.6K	1	
R7807		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7851		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7852		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7860		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R8301		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8302		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8303,04		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8305,06		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R8307		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8308		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8309		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8310		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8311		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8312		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8313		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8314		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8315,16		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
SW3901		VSS0162	SWITCH	1	
SW3902		VSS0196	SWITCH	1	
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T710		EULBEF023	TRANSFORMER	1	
T851		ELM7Q207A	COIL	1	
T4001		EIQ7QF013Q	TRANSFORMER	1	
T7301		EIR7QG001B	IF TRANSFORMER	1	
T7302,03		EIL7QH011Q	TRANSFORMER	2	
T7304		EIS5EC007A	TRANSFORMER	1	
T7305		EIS5EC005A	TRANSFORMER	1	
VR301		EVNDRAA00B13	V.RESISTOR 1K	1	
VR302		EVND1AA00B52	V.RESISTOR 500	1	
VR303		EVN32CA00B52	V.RESISTOR 500	1	
VR701,02		EVM4LGA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR801		EVND1AA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2006		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2009,10		EVND4AA00B25	V.RESISTOR 200K	2	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2013		EVNDRAA00B23	V.RESISTOR 2K	1	
VR2018,19		EVNDRAA00B15	V.RESISTOR 100K	2	
VR3001		EVNDRAA00B23	V.RESISTOR 2K	1	
VR3301		EVN4YCA00B13	V.RESISTOR 1K	1	
VR3302		EVNDRAA00B24	V.RESISTOR 20K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
VR4004		EVNDRAA00B53	V.RESISTOR 5K	1	
VR4501		EVN3DCA00B14	V.RESISTOR 10K	1	
VR4502		EVN3ACA00B24	V.RESISTOR 20K	1	
VR4503		EVNDRAA00B23	V.RESISTOR 2K	1	
VR4505		EVND1AA00B14	V.RESISTOR 10K	1	
VR4507		EVN3ACA00B24	V.RESISTOR 20K	1	
VR4509		EVN3DCA00BS3	V.RESISTOR	1	
VR4510		EVN4LCA00B25	V.RESISTOR 200K	1	
VR5001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR5002		EVND1AA00B54	V.RESISTOR 50K	1	
VR5003		EVND4AA00B24	V.RESISTOR 20K	1	
VR5004,05		EVN49CA00B52	V.RESISTOR 500	2	
VR7301		EVN38CA00B14	V.RESISTOR 10K	1	
VR7326		EVN38CA00B52	V.RESISTOR 500	1	
VR7328		EVN38CA00B52	V.RESISTOR 500	1	
VR7340		EVNE4AA00B14	V.RESISTOR 10K	1	
VR7342		EVNE4AA00B53	V.RESISTOR 5K	1	
VR7344		EVNE4AA00B14	V.RESISTOR 10K	1	
VR8301		EVN4YCA00B52	V.RESISTOR 500	1	
VR8302		EVNDRAA00B13	V.RESISTOR 1K	1	
X710		EFCH38MSP4	CRYSTAL OSCILLATOR	1	
X711		EFCS5R5MW5	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X715		ELB5A043	FILTER	1	
X716		EFCA31R90M1	CRYSTAL OSCILLATOR	1	31.75MHZ
X717		EFCA40R40M1	FILTER	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X2201		VSX0225	CRYSTAL OSCILLATOR	1	
X3301		VSX0316	CRYSTAL OSCILLATOR	1	
X3303		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0306	CRYSTAL OSCILLATOR	1	
X6002		VSQ0565	SENSOR	1	
X7301,02		EFCS5R5MS5B	CRYSTAL OSCILLATOR	2	
X7303,04		EFCS5R74MS5B	CRYSTAL OSCILLATOR	2	
X7305		ELB5A016	FILTER	1	
X7851		EF0A4R0M03C2	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK PLATE	1	
		VSC1323	HEAT SINK	1	(FOR Q1001)
		ENC17966	RF CONVERTER	1	<!>
		VJH0510	RF CONVERTER JACK PLATE	1	
		VJF0442	CLAMPER	1	
		VMC0075	HEAT SINK FIX SPRING	1	(FOR IC2206)
		VSC2734	HEAT SINK	1	(FOR IC2206)
		VMZ1352	HEAT SINK COVER	1	(FOR SERVO PACK)
		VJF0368	SERVO PACK C.B.A. SUPPORTOR	2	(FOR SERVO PACK)
		VJF0368	LUMINANCE & CHROMINANCE	2	(FOR LUMI&CHRO PACK)
			PACK C.B.A. SUPPORTOR		
		VSC2908	SHIELD CASE (TOP)	1	(FOR HQ PACK)
		VSC2909	SHIELD CASE (MAIN)	1	(FOR HQ PACK)
		VSC2910	SHIELD CASE (BOTTOM)	1	(FOR HQ PACK)
		VJF0368	HQ PACK C.B.A. SUPPORTOR	2	(FOR HQ PACK)
		VJR0164	PACK PIN (10P)	4	(FOR I/O PACK)
		VEJ0889	REAR JACK	1	(FOR I/O PACK)
		VGU2707	SW KNOB	2	(FOR I/O PACK)
		ENV57846H6	TUNER	1	<!> (FOR TV DEMO.)
		VSC2713	SHIELD CASE (MAIN)	1	(FOR TV DEMO.)
		VSC2712	SHIELD CASE (TOP)	1	(FOR TV DEMO.)
		VSC2714	SHIELD CASE (BOTTOM)	1	(FOR TV DEMO.)
	■	VEP03639A	LUMINANCE & CHROMINANCE		(NLA) NV-FS100EG
			SEPARATION C.B.A.		
			CAPACITORS		
C3701		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3703		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3705		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3706		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C3707		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3709		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3710,11		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C3713,14		ECEA1AK470U	E.CAPACITOR 10V 47U	2	
C3715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3716		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3717		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3718		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3719		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3721		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3722		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3723		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3724		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C3726		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C3727		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3728		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3729		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3733		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3734		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3735		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3736		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3737-40		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3741		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3742		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3743		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3746		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3748		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3749		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3750-52		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3753		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3754		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3755		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3756,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3758		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3759		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3760		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3762		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3763		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3764		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3765,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3767		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C3768		ECEA1CU221	E.CAPACITOR 16V 220U	1	
C3771-73		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	3	
C3777,78		ECEA1CK470U	E.CAPACITOR 16V 47U	2	
C3781		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C3782		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3783		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C3784		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3785		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3799		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3801		ECEA1HSN010	E.CAPACITOR 50V 1U	1	
C3802		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C3803		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3804		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C3805		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C3806-11		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	6	
C3812		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3813		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3814		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3815,16		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C3817-19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3820,21		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3822		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3823		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3824,25		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
D3701		MA151WK	DIODE	1	
D3703,04		1SS99	DIODE	2	
D3705		MA4100L	DIODE	1	
DL3701		VLD0177	DELAY	1	
FL3701		VLF0765	FILTER	1	
FL3702		VLF0766	FILTER	1	
FL3705		ELB4S041	FILTER	1	
FL3706-08		ELB4Q071	FILTER	3	
FL3801		ELB4R046	FILTER	1	
FL3802,03		VLF0523	FILTER	2	
FL3804,05		VLF0526	FILTER	2	
IC3701,02		M52055FP	IC	2	
IC3703		AN607P	IC	1	
IC3704		AN3916	IC	1	
IC3705		CX22013	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3706		AN608P	IC	1	
IC3707		AN607P	IC	1	
IC3708		AN608P	IC	1	
IC3801,02		CXL1009P	IC	2	
L3701		VLQEL05F101K	COIL 100UH	1	
L3702		VLQEL05F330K	COIL 33UH	1	
L3704,05		VLQEL05F101K	COIL 100UH	2	
L3713		VLQEL05F390K	COIL 39UH	1	
L3714		VLQEL06F101K	COIL 100UH	1	
L3716		VLQEL05F101K	COIL 100UH	1	
L3719,20		VLQEL05F8R2K	COIL 8.2UH	2	
L3801		VLP0053	COIL	1	
P3701,02		VJP1231T	CONNECTOR(MALE) 4P	2	
P3703		VJP1237T	CONNECTOR(MALE) 10P	1	
P3704		VJP1231R	CONNECTOR(MALE) 4P	1	
PJ3701		VJP2775	CONNECTOR(MALE)	1	
PJ3702		VJP2778	CONNECTOR(MALE)	1	
Q3701		2SC2295	TRANSISTOR	1	
Q3702		2SB709	TRANSISTOR CHIP	1	
Q3703		2SD601	TRANSISTOR CHIP	1	
Q3704		2SC2295	TRANSISTOR	1	
Q3705		2SB709	TRANSISTOR CHIP	1	
Q3706,07		2SC2295	TRANSISTOR	2	
Q3708		2SB709	TRANSISTOR CHIP	1	
Q3709		2SC2295	TRANSISTOR	1	
Q3710		2SD601	TRANSISTOR CHIP	1	
Q3711		2SC2295	TRANSISTOR	1	
Q3712		2SB709	TRANSISTOR CHIP	1	
Q3713,14		2SC2295	TRANSISTOR	2	
Q3715		2SB709	TRANSISTOR CHIP	1	
Q3716		2SC2295	TRANSISTOR	1	
Q3717		2SA1022	TRANSISTOR CHIP	1	
Q3718		2SC2295	TRANSISTOR	1	
Q3719-21		2SD601	TRANSISTOR CHIP	3	
Q3722		2SC2295	TRANSISTOR	1	
Q3723		2SB709	TRANSISTOR CHIP	1	
Q3724		2SC2295	TRANSISTOR	1	
Q3725,26		2SD601	TRANSISTOR CHIP	2	
Q3728		2SC2295	TRANSISTOR	1	
Q3729-31		2SD601	TRANSISTOR CHIP	3	
Q3733,34		2SD601	TRANSISTOR CHIP	2	
Q3801		2SC2295	TRANSISTOR	1	
Q3802-04		2SB709	TRANSISTOR CHIP	3	
			RESISTORS		
R3701		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3702		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3703-06		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	4	
R3707		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3708		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3709		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3710		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3712		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3713		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3714		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3715		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3716		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3717		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R3718		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3719		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3720		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3721		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3722		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3723		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3724		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3725		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3727		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3728		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3729		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3730		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3731		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3732		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3737		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3738		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3739		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3740		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3741		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3742		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3743		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3744		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3745		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3746		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3747		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3748		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3749		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3750		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3751,52		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3753		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3754		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3755		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3756		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3757		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3758		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3759,60		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3761		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3763		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3764,65		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3766		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3767,68		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R3769		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3770		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3771,72		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3774		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3775		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3776,77		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R3778		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3779		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3780		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3781		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3782		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3783		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3784		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3785		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3786		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3787		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3788		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3789		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3791		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3793,94		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3795,96		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R3797		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3798		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3799		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3801		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3802-04		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	3	
R3805,06		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R3807		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3808		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3809		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3810		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3811		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3812		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3813,14		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
SW3701		ESD14314	SWITCH	1	
TH3701,02		ERTD2WHL102	THERMISTOR	2	
VR3701		EVN4YCA00B24	V.RESISTOR 20K	1	
VR3702-05		EVN4YCA00B23	V.RESISTOR 2K	4	
VR3706-09		EVN4YCA00B13	V.RESISTOR 1K	4	
X3801		VSX0323	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC2928	SHIELD CASE (TOP/BOTTOM)	2	
		VSC2929	SHIELD CASE (MAIN)	1	
	■	VEP03639B	LUMINANCE & CHROMINANCE		(NLA) NV-FS100EI
			SEPARATION C.B.A.		
			CAPACITORS		
C3701		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3703		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3705		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3706		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3707		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3709		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3710,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3713,14		ECEA1AK470U	E.CAPACITOR 10V 47U	2	
C3715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3716		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3717		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3718		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3719		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3721		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3722		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3723		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3724		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3726		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C3727		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3728		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3729		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3733		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3734		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3735		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3736		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3737-40		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3741		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3742		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3743		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3746		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3748		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3749		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3750-52		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3753		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3754		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3755		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3756,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3758		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3759		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3760		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3762		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3763		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3764		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3765,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3767		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C3768		ECEA1CU221	E.CAPACITOR 16V 220U	1	
C3771-73		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3777,78		ECEA1CK470U	E.CAPACITOR 16V 47U	2	
C3781		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3782		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C3783		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C3784		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3785		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3799		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3801		ECEA1HSN010	E.CAPACITOR 50V 1U	1	
C3802		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C3803		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3804		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3805		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C3806-11		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	6	
C3812		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3813		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3814		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3815,16		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C3817-19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3820,21		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3822		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3823		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3824,25		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
D3701		MA151WK	DIODE	1	
D3703,04		1SS99	DIODE	2	
D3705		MA4100L	DIODE	1	
DL3701		VLD0177	DELAY	1	
FL3701		VLF0765	FILTER	1	
FL3702		VLF0766	FILTER	1	
FL3705		ELB4S041	FILTER	1	
FL3706-08		ELB4Q071	FILTER	3	
FL3801		ELB4R046	FILTER	1	
FL3802,03		VLF0523	FILTER	2	
FL3804,05		VLF0526	FILTER	2	
IC3701,02		M52055FP	IC	2	
IC3703		AN607P	IC	1	
IC3704		AN3916	IC	1	
IC3705		CX22013	IC	1	
IC3706		AN608P	IC	1	
IC3707		AN607P	IC	1	
IC3708		AN608P	IC	1	
IC3801,02		CXL1009P	IC	2	
L3701		VLQEL05F101K	COIL 100UH	1	
L3702		VLQEL05F330K	COIL 33UH	1	
L3704,05		VLQEL05F101K	COIL 100UH	2	
L3713		VLQEL05F390K	COIL 39UH	1	
L3714		VLQEL06F101K	COIL 100UH	1	
L3716		VLQEL05F101K	COIL 100UH	1	
L3719,20		VLQEL05F8R2K	COIL 8.2UH	2	
L3801		VLP0053	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P3701		VJP1231T	CONNECTOR(MALE) 4P	1	
P3703		VJP1237T	CONNECTOR(MALE) 10P	1	
P3704		VJP1231R	CONNECTOR(MALE) 4P	1	
PJ3701		VJP2775	CONNECTOR(MALE)	1	
PJ3702		VJP2778	CONNECTOR(MALE)	1	
Q3701		2SC2295	TRANSISTOR	1	
Q3702		2SB709	TRANSISTOR CHIP	1	
Q3703		2SD601	TRANSISTOR CHIP	1	
Q3704		2SC2295	TRANSISTOR	1	
Q3705		2SB709	TRANSISTOR CHIP	1	
Q3706,07		2SC2295	TRANSISTOR	2	
Q3708		2SB709	TRANSISTOR CHIP	1	
Q3709		2SC2295	TRANSISTOR	1	
Q3710		2SD601	TRANSISTOR CHIP	1	
Q3711		2SC2295	TRANSISTOR	1	
Q3712		2SB709	TRANSISTOR CHIP	1	
Q3713,14		2SC2295	TRANSISTOR	2	
Q3715		2SB709	TRANSISTOR CHIP	1	
Q3716		2SC2295	TRANSISTOR	1	
Q3717		2SA1022	TRANSISTOR CHIP	1	
Q3718		2SC2295	TRANSISTOR	1	
Q3719-21		2SD601	TRANSISTOR CHIP	3	
Q3722		2SC2295	TRANSISTOR	1	
Q3723		2SB709	TRANSISTOR CHIP	1	
Q3724		2SC2295	TRANSISTOR	1	
Q3725,26		2SD601	TRANSISTOR CHIP	2	
Q3728		2SC2295	TRANSISTOR	1	
Q3729-31		2SD601	TRANSISTOR CHIP	3	
Q3733,34		2SD601	TRANSISTOR CHIP	2	
Q3801		2SC2295	TRANSISTOR	1	
Q3802-04		2SB709	TRANSISTOR CHIP	3	
			RESISTORS		
R3701		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3702		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3703,04		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3705		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3706		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3707		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3708		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3709		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3710		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3712		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3713		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3714		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3715		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3716		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3717		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R3718		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3719		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3720		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3721		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3722		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3723		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3724		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3725		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3727		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3728		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3729		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3730		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3731		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3732		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3737		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3738		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3739		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3740		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3741		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3742		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3743		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3744		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3745		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3746		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3747		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3748		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3749		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3750		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3751,52		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3753		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3754		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3755		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3756		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3757		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3758		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3759,60		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3761		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3763		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3764,65		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3766		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3767,68		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R3769		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3770		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3771,72		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3774		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3775		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3776,77		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R3778		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3779		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3780		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3781		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3782		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3783		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3784		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3785		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3786		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3787		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3788		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3789		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3791		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3793,94		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3795,96		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R3797		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3798		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3799		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3801		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3802-04		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	3	
R3805,06		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R3807		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3808		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3809		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3810		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3811		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3812		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3813,14		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
SW3701		ESD14314	SWITCH	1	
TH3701,02		ERTD2WHL102	THERMISTOR	2	
VR3701		EVN4YCA00B24	V.RESISTOR 20K	1	
VR3702-05		EVN4YCA00B23	V.RESISTOR 2K	4	
VR3706-09		EVN4YCA00B13	V.RESISTOR 1K	4	
X3801		VSX0323	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VSC2928	SHIELD CASE (TOP/BOTTOM)	2	
		VSC2929	SHIELD CASE (MAIN)	1	
	■	VEP03677A	SUB LUMINANCE & CHROMINANCE		(NLA)
			C.B.A.		
			CAPACITORS		
C3501		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C3502		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C3503		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3504		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3506		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3508		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C3509,10		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	2	
C3511		ECEA0JSN470	E.CAPACITOR 6.3V 47U	1	
C3512,13		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3515		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3516		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C3517,18		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3519		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3520,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3522		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3523		ECQP1H272JZ	P.CAPACITOR 50V 2700P	1	
C3524		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3525		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C3526		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C3527		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3528		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3529		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3530		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3531		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3532		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3533		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3534,35		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C3536,37		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3538		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C3539,40		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3541		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C3542,43		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C3544,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3546		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3547		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3548,49		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3550,51		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3552		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3553,54		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3555		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8502,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8505-10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C8511		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C8512		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C8513		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8514		ECUM1H183KBN	C.CAPACITOR CH 50V 0.018U	1	
C8515		ECUM1E273KBN	C.CAPACITOR CH 25V 0.027U	1	
C8516		ECUM1H391KBN	C.CAPACITOR CH 50V 390P	1	
C8517		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8518		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C8519,20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8521		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C8522		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8523		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
D3501		MA151K	DIODE	1	
D3502		MA153	DIODE	1	
DL8501		EFDRT325A12B	DELAY	1	
DL8502		VLD0079	DELAY	1	
FL3501,02		VLF0523	FILTER	2	
FL3503,04		VLF0526	FILTER	2	
FL3505		ELB4H054	FILTER	1	
IC3501		TL8705P	IC	1	
IC3502		AN78L09	IC	1	
IC3503		UPC1517CA	IC	1	
IC3504		CXL1009P	IC	1	
IC3505		AN78L09	IC	1	
IC3506		M52055FP	IC	1	
IC8501		AN3594K	IC	1	
IC8503		BU5715F	IC	1	
L3501-04		VLQEL05F101K	COIL 100UH	4	
L3505		VLQEL05F100K	COIL 10UH	1	
L3506,07		VLQEL05F390K	COIL 39UH	2	
L3508,09		VLQEL05F101K	COIL 100UH	2	
L3510		VLP0053	COIL	1	
L8501		VLQEL05F101K	COIL 100UH	1	
L8503		VLQEL05F8R2K	COIL 8.2UH	1	
L8504,05		VLQEL05F150K	COIL 15UH	2	
L8506,07		VLQEL05F101K	COIL 100UH	2	
P3501		VJP1233T	CONNECTOR(MALE) 6P	1	
P3502		VJP1235T	CONNECTOR(MALE) 8P	1	
P3503		VJP1231T	CONNECTOR(MALE) 4P	1	
P3504		VJP2776	CONNECTOR	1	
P3505		VJP2775	CONNECTOR(MALE)	1	
Q3501,02		2SB709	TRANSISTOR CHIP	2	
Q3503		2SD601	TRANSISTOR CHIP	1	
Q3504		2SB709	TRANSISTOR CHIP	1	
Q3505,06		2SC2295	TRANSISTOR	2	
Q3507		2SB709	TRANSISTOR CHIP	1	
Q3508,09		2SC2295	TRANSISTOR	2	
Q3510		2SB709	TRANSISTOR CHIP	1	
Q8501		2SC2295	TRANSISTOR	1	
Q8502,03		2SD601	TRANSISTOR CHIP	2	
			RESISTORS		
R3501		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R3503		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3504		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3505		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3506		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3507		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3508,09		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3510		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3511		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3512		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3513		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3514		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3515		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3516,17		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3518		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3519		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3520		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3521		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3522		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3523		ERTD2ZHL333S	THERMISTOR 33K	1	
R3524		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3525		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3526		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R3527		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3528		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R3529		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3530		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3531		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3532-35		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	4	
R3536,37		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3538		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8501		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8502		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8503		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8504		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8505		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8506,07		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	2	
R8508		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R8509		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8510		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8511		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R8512		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8513		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8514,15		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R8516		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R8517		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8518,19		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R8520		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8521		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8522		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8523		ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R8524		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
VR3501		EVN4YCA00B13	V.RESISTOR 1K	1	
VR3502,03		EVN4YCA00B53	V.RESISTOR 50K	2	
VR8502,03		EVN4YCA00B13	V.RESISTOR 1K	2	
X3501		VSX0189	CRYSTAL OSCILLATOR	1	
X3502		VSX0323	CRYSTAL OSCILLATOR	1	
			MISCELLANEUS		
		VSC2914	SHIELD CASE (TOP)	2	
		VSC2915	SHIELD CASE (MAIN)	1	
		VSC2916	SHIELD CASE (BOTTOM)	1	
		VSC2911	SHIELD CASE (TOP)	2	(FOR 1H DELAY CCD)
		VSC2912	SHIELD CASE (MAIN)	1	(FOR 1H DELAY CCD)
	■	VEP05149A	HEAD AMP C.B.A.		(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C501		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C502,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C504		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C505		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C507,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C511		ECUM1E473ZFN	C.CAPACITOR CH 25V 0.047U	1	
C513		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C514		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C515		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C516		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C517		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C518		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C519,20		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C523		ECUM1H040CCN	C.CAPACITOR 50V 4P	1	
C524,25		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	2	
C526		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C527		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C530		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C531		ECUM1H060DCN	T.CAPACITOR 50V 6P	1	
C532		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C533		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C534		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C535		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C536		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C537		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C552		VCEA0JAC221J	E.CAPACITOR 6.3V 220U	1	
C553		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C555-59		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C560		ECEA0JPK470	E.CAPACITOR 6.3V 47U	1	
C561		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C562,63		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	2	
C564,65		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C566		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C567		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C569		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
D501,02		MA165	DIODE	2	
IC501		AN3334K	IC	1	
IC502		VCR0271	IC	1	
IC551		BA7740FS	IC	1	
L502		VLQ0188K330	COIL 33UH	1	
L504		VLQEL05F101K	COIL 100UH	1	
L505		VLQ0188K330	COIL 33UH	1	
L506		VLQ0188K6R8	COIL 6.8UH	1	
L551,52		VLQEL05F101K	COIL 100UH	2	
L553,54		VLQ0213K2R2	COIL 2.2UH	2	
P501		VJP1250T	CONNECTOR	1	
P551		VJP1236T	CONNECTOR(MALE) 9P	1	
Q501		2SB709	TRANSISTOR CHIP	1	
			RESISTORS		
R501		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R502		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R503		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R507		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R508		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R510		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R512		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R513		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R514		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R515,16		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R517,18		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	2	
R519		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R520		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R521		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R522		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R523		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R551,52		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R554		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R555		ERJ6GMYJ243	M.RESISTOR CH 1/10W 24K	1	
R556		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R557		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R558		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R559		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R560		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R561,62		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R563		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R564		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R565		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R566,67		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R568		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
VR501,02		EVND1AA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		
		VSC2668	SHIELD CASE (TOP)	1	
		VSC2669	SHIELD CASE (BOTTOM)	1	
		VSC2670	SHIELD CASE (MAIN)	1	
	■	VEP07566A	VPT INTERFACE C.B.A.		(NLA) NV-FS100EG
P7801		VJP1244T	CONNECTOR(MALE) 4P	1	
P7802		VJP1246T	CONNECTOR(MALE) 6P	1	
P7803		VJP1244T	CONNECTOR(MALE) 4P	1	
P7804		VJP1246T	CONNECTOR(MALE) 6P	1	
	■	VEP06580A	VR C.B.A.		(NLA)
			CAPACITORS		
C6301,02		ECQB1H103KH	P.CAPACITOR 50V 0.01U	2	
C6501,02		ECQV1H223JS	P.CAPACITOR 50V 0.022U	2	
C6503		ECEA1AKS330	E.CAPACITOR 10V 33U	1	
C6504		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6505		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6507		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6508,09		ECQV1H124JS	P.CAPACITOR 50V 0.12U	2	
C6510		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
D6501		LN21RCPHL	LED	1	
IC6501		VCR0172	IC	1	
J6301		VJJ0192	CONNECTOR	1	
J6302		VJJ0210	CONNECTOR	1	
L6301,02		VLQ0188J221	COIL 220UH	2	
L6501,02		VLQEL05F471K	COIL 470UH	2	
P6501		VJP1249T	CONNECTOR(MALE) 9P	1	
P6503		VJP1930T	CONNECTOR	1	
P6504		VJP1242T	CONNECTOR(MALE) 2P	1	
			RESISTORS		
R6501		EROS2CKG1601	M.RESISTOR 1/4W 1.6K	1	
R6502		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R6503		EROS2CKG1601	M.RESISTOR 1/4W 1.6K	1	
R6504		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R6505		EROS2CKG1102	M.RESISTOR 1/4W 11K	1	
R6506		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R6507		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
SW6501		EVQQS307K	SWITCH	1	
VR3004		EWAKFKXB3B24	V.RESISTOR 20K	1	
VR6501		EWAKABXB3C23	V.RESISTOR 2K	1	
VR6503		EWANYHX05J24	V.RESISTOR 20K	1	
			MISCELLANEOUS		
		KL04	LED SPACER	1	
		VYC0160	REC VR PANEL UNIT	1	
		VGU4495	REC VR KNOB	2	
		VJF0691	JACK HOLDER	1	
	■	VEP07530A	TIMER C.B.A.		(NLA) NV-FS100EG
			CAPACITORS		
C6701		ECEA0JK470I	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H331KB	C.CAPACITOR 50V 330P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6704		ECEA1HK3R3I	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7505		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7507		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7508		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7509		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7510		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7513		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7514		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7520		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7521		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7522		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C7523,24		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7525		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
D6701		PN323B	PHOTO DIODE	1	
D7501		MA3068	DIODE	1	
D7504		MA73	DIODE	1	
D7507		MA73	DIODE	1	
D7510		MA73	DIODE	1	
D7511		MA73	DIODE	1	
D7513		MA73	DIODE	1	
D7516,17		MA73	DIODE	2	
D7519		MA73	DIODE	1	
D7530		MA73	DIODE	1	
D7532,33		MA73	DIODE	2	
D7534,35		MA73	DIODE	2	
D7536-40		MA73	DIODE	5	
D7541		MA73	DIODE	1	
D7550-53		LN28RCPL	DIODE	4	
D7554		VLL0055	DIODE	1	
D7555		LN28RCPL	DIODE	1	
D7556		LN38GCPL	DIODE	1	
D7557		LN28RCPL	DIODE	1	
D7559		LN28RCPL	DIODE	1	
D7560		MA73	DIODE	1	
D7562		LN28RCPL	DIODE	1	
DP7501		VSL0144	DISPLAY TUBE	1	
IC6701		UPC1490HA	IC	1	
IC7501		MN187125VFQ	IC	1	
IC7502		MN12261	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	
IC7505		BA6810S	IC	1	
L7501		VLQEL05F221K	COIL 220UH	1	
P7504		VJP1246T	CONNECTOR(MALE) 6P	1	
P7507		VJP2621	CONNECTOR(MALE)	1	
Q7501		2SD601	TRANSISTOR CHIP	1	
QR7501		UN2213	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR7502		UN2112	TRANSISTOR-RESISTOR	1	
QR7503		UN2113	TRANSISTOR-RESISTOR	1	
QR7505		UN2111	TRANSISTOR-RESISTOR	1	
QR7506		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2112	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R6703		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7501		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7506		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R7507		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7508-10		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7512		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7513		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7514		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-32		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	10	
R7533		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7534		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7536		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7538		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7539		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7540		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R7541		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7542-44		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R7546		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R7547		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7549		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7550-56		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	7	
R7557		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7558,59		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R7560		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
RX7501		EXBF11E104J	RESISTOR-RESISTOR	1	
RX7502		EXBF8E104J	COMBINATION RARTS	1	
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0693	FIP HOLDER	1	
		VJF0740	LED SPACER	1	
		VMD1342	LED SPACER	1	
		VSC2671	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
		VSC2672	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)
	■	VEP07530B	TIMER C.B.A.		(NLA) NV-FS100EI
			CAPACITORS		
C6701		ECEA0JK470I	E.CAPACITOR 6.3V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6702		ECKF1H331KB	C.CAPACITOR 50V 330P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3I	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7505		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7507		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7508		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7509		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7510		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7513		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7514		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7520		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7521		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7522		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C7523,24		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7525		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
D6701		PN323B	PHOTO DIODE	1	
D7501		MA3068	DIODE	1	
D7504		MA73	DIODE	1	
D7507		MA73	DIODE	1	
D7510		MA73	DIODE	1	
D7511		MA73	DIODE	1	
D7513		MA73	DIODE	1	
D7516,17		MA73	DIODE	2	
D7530		MA73	DIODE	1	
D7532,33		MA73	DIODE	2	
D7534,35		MA73	DIODE	2	
D7536-40		MA73	DIODE	5	
D7541		MA73	DIODE	1	
D7550-53		LN28RCPL	DIODE	4	
D7554		VLL0055	DIODE	1	
D7555		LN28RCPL	DIODE	1	
D7556		LN38GCPL	DIODE	1	
D7557		LN28RCPL	DIODE	1	
D7559		LN28RCPL	DIODE	1	
D7560		MA73	DIODE	1	
DP7501		VSL0144	DISPLAY TUBE	1	
IC6701		UPC1490HA	IC	1	
IC7501		MN187125VFI	IC	1	
IC7502		MN12261	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	
IC7505		BA6810S	IC	1	
L7501		VLQEL05F221K	COIL 220UH	1	
P7507		VJP2621	CONNECTOR(MALE)	1	
Q7501		2SD601	TRANSISTOR CHIP	1	
QR7501		UN2213	TRANSISTOR-RESISTOR	1	
QR7502		UN2112	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR7503		UN2113	TRANSISTOR-RESISTOR	1	
QR7505		UN2111	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2112	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R6703		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7501		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7506		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R7507		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7508-10		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7512		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7513		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7514		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-32		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	10	
R7533		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7534		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7536		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7538		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7539		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7540		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R7541		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7542-44		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R7546		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R7547		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7549		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7550-56		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	7	
R7557		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7558,59		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	2	
RX7501		EXBF11E104J	RESISTOR-RESISTOR	1	
RX7502		EXBF8E104J	COMBINATION RARTS	1	
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0693	FIP HOLDER	1	
		VJF0740	LED SPACER	1	
		VMD1342	LED SPACER	1	
		VSC2671	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
		VSC2672	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)
	■	VEP06597A	JOG SHUTTLE C.B.A.		(NLA)
D6701-03		LN38GCPP	LED	3	
QR6701		UN1112	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTORS		
R6701		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R6702		EROS2CKG1002	M.RESISTOR 1/4W 10K	1	
R6703		EROS2CKG1802	M.RESISTOR 1/4W 18K	1	
R6704-06		EROS2CKG1801	M.RESISTOR 1/4W 1.8K	3	
R6707		EROS2CKG1002	M.RESISTOR 1/4W 10K	1	
R6708		ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R6709		EROS2CKG9102	M.RESISTOR 1/4W 91K	1	
R6710		EROS2CKG1202	M.RESISTOR 1/4W 12K	1	
R6711		EROS2CKG6802	M.RESISTOR 1/4W 68K	1	
R6712		EROS2CKG3302	M.RESISTOR 1/4W 33K	1	
R6713		EROS2CKG5102	M.RESISTOR 1/4W 51K	1	
R6714		EROS2CKG1203	M.RESISTOR 1/4W 120K	1	
SW6701		EVQQS307K	SWITCH	1	
			MISCELLANEOUS		
		VMX1652	LED SPACER	3	
		VSQ0651	JOG/SHUTTLE ENCODER	1	
	■	VEP01381A	POWER C.B.A.		(NLA)
			CAPACITORS		
C1101		ECQU2A224MN	P.CAPACITOR 100V 0.22U	1	
C1102		ECQU2A154MN	P.CAPACITOR 100V 0.15U	1	
C1105		VCC0021	.CAPACITOR	1	
C1108		VCC0021	.CAPACITOR	1	
C1111		VCC0022	C.CAPACITOR 1000P	1	
C1112		ECOS2GA121G	E.CAPACITOR 400V 120U	1	
C1113		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1114		ECQE6473JZ	P.CAPACITOR 630V 0.047U	1	
C1115		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1116		ECQB1H682JZ	P.CAPACITOR 50V 6800P	1	
C1117		ECEA1HFE560	E.CAPACITOR 50V 56U	1	
C1118		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C1119		ECQV1H334JF	P.CAPACITOR 50V 0.33U	1	
C1120		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1121		ECEA1HFE121	E.CAPACITOR 50V 120U	1	
C1122,23		ECEA1CFZ122	E.CAPACITOR 16V 1200U	2	
C1124		ECEA1AFZ102	E.CAPACITOR 10V 1000U	1	
C1125		ECEA0JFZ471	E.CAPACITOR 6.3V 470U	1	
C1126		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C1127		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1128-30		ECEA1AGE101	E.CAPACITOR 10V 100U	3	
C1131		ECEA1CFE331	E.CAPACITOR 16V 330U	1	
C1132-37		ECKF1H103ZFB	C.CAPACITOR 50V 0.01U	6	
C1138		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1139		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C1141		ECEA1HFE270	E.CAPACITOR 50V 27U	1	
D1102-05		EM1BLF	DIODE	4	
D1106		VSD0002	DIODE	1	
D1107		AP01C	DIODE	1	
D1108		MA4030L	DIODE	1	
D1109		MA178	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D1110		MA165	DIODE	1	
D1111		ERA22-02	DIODE	1	
D1112		FMLG12SP	DIODE	1	
D1113		10ELS2	DIODE	1	
D1114		FMBG14L	DIODE	1	
D1115		EK14LF	DIODE	1	
D1116		MA2160A	DIODE	1	
D1117		MA4130L	DIODE	1	
IC1101		STRD6009E	IC	1	
IC1102		STK5392	IC	1	
IC1103		SE013E	IC	1	
L1101,02		ELF18D221F	COIL	2	
L1103		ELC07B009	COIL	1	
L1104,05		VLQEL06F101K	COIL 100UH	2	
L1106		ELC07B009	COIL	1	
P1101		VJP1930T	CONNECTOR	1	
P1103		VJP1149	CONNECTOR(MALE)	1	
Q1101		PC111AD	TRANSISTOR	1	
Q1102		2SD1330	TRANSISTOR	1	
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R1102,03		ERDS1TJ563	C.RESISTOR 1/2W 56K	2	
R1104,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1106		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1107		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1108		ERD2FTVG681	C.RESISTOR 1/4W 680	1	
R1109		ERDS2TJ121	C.RESISTOR 1/4W 120	1	
R1110		ERW1PK2R2T	W.RESISTOR 1/2W 2.2	1	
R1111,12		ERG2SJ820	M.RESISTOR 2W 82	2	
R1113,14		ERG2SJ560	M.RESISTOR 2W 56	2	
R1115		ERG1SJ182E	M.RESISTOR 1W 1.8K	1	
R1116		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1117		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1118		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
T1101		VLT0591	TRANSFORMER	1	
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	4	
		VMZ1184	CAPACITOR COVER	1	
	■	VEP01397A	AUDIO POWER C.B.A.		(NLA)
			CAPACITORS		
C1251,52		ECEA1CPZ102	E.CAPACITOR 16V 1000U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1253		ECEA1CPZ471	E.CAPACITOR 16V 470U	1	
C1256		ECEA1CPZ221	E.CAPACITOR 16V 220U	1	
C1257		VCEA1CAE221	E.CAPACITOR 16V 220U	1	
C1258		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C1259		VCEA1CAG100	E.CAPACITOR 16V 10U	1	
C1260		ECEA1CPZ102	E.CAPACITOR 16V 1000U	1	
C1261		ECEA1CPZ471	E.CAPACITOR 16V 470U	1	
C1262,63		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	2	
C1270		ECCF1H150KC	C.CAPACITOR 50V 15P	1	
C1271,72		ECKF1H101KB	C.CAPACITOR 50V 100P	2	
D1251		MA4062M	DIODE	1	
D1252		EK04	DIODE	1	
D1256,57		MA165	DIODE	2	
IC1251		RC4560DD	IC	1	
L1251,52		VLQ0407391K	COIL	2	
P1251		VJP1188	CONNECTOR(MALE)	1	
P1253		VJP1243T	CONNECTOR(MALE) 3P	1	
Q1251		2SB561	TRANSISTOR	1	
Q1252-54		2SD655	TRANSISTOR	3	(E,F)
			RESISTORS		
R1252		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1254		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R1255		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1256		ERDS2TJ821	C.RESISTOR 1/4W 820	1	
R1257		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1258		ERDS2TJ822	C.RESISTOR 1/4W 8.2K	1	
R1259		ERDS2TJ105	C.RESISTOR 1/4W 1000K	1	
R1260		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1261		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R1262		ERD2FCJ4R7	C.RESISTOR 2W 4.7	1	
R1263		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1264		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
	■	VEP00P23A	CYLINDER DRIVE C.B.A.		(NLA)
C2901		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	1	
C2902		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	1	
C2903		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	1	
C2904		ECUM1E104KBM	E.CAPACITOR CH 25V 0.1U	1	
C2905		ECUM1E104KBM	E.CAPACITOR CH 25V 0.1U	1	
C2906		ECUM1E104KBM	E.CAPACITOR CH 25V 0.1U	1	
C2907		ECUM1E683KBM	E.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	E.CAPACITOR CH 25V 0.047U	1	
C2909		ECQV1H104JS	P.CAPACITOR 25V 0.1U	1	
C2910		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C2911		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C2912		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
IC2901		AN3815K	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P2901		VJP2603W	CONNECTOR(MALE)	1	
P2902		VJP1232	CONNECTOR(MALE)	1	
R2901		ERX12SJR47	RESISTOR	1	
	■	VEP00K88C	FE HEAD C.B.A.		(NLA)
			CAPACITORS		
C1401		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C1402		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C1403		ECQB1H333KH	P.CAPACITOR 50V 0.033U	1	
CR1401		EXED103Z333C	CAPACITOR-RESISTOR	1	
L1401		VLQEL05F101K	COIL 100UH	1	
P1502		VJP1148	CONNECTOR 2P	1	
Q1401		2SD636	TRANSISTOR	1	(R)
T1401		EIQ7QF012Q	TRANSFORMER	1	
	■	VEP00M86A	FG AMP C.B.A.		(NLA)
			CAPACITORS		
C1510		ECUM1H101JCN	C.CAPACITOR 50V 100P	1	
C1511		ECUM1H104ZFM	C.CAPACITOR 50V 0.1U	1	
C1512		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C1513		ECUM1H101JCN	C.CAPACITOR 50V 100P	1	
C1514		ECUM1H104ZFM	C.CAPACITOR 50V 0.1U	1	
IC1501		UPC358G	IC	1	
L1510,11		VLP0083	FILTER	2	
P1505		VJS1456	CONNECTOR(FEMALE)	1	
P1506		VJS1685	CONNECTOR	1	
			RESISTORS		
R1510		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R1511		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R1512		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R1513-16		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1517		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R1518		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R1519		ERJ6GMYJ473	CHIP 1/10W 47K	1	
	■	VXA3825	MECHANISM CONNECTION C.B.A.		(NLA)
IC1501,02		ON2170	PHOTO COUPLER	2	
P1504		VJS1493	CONNECTOR 15P	1	
	■	VEK3578	PHOTO Tr.(S) C.B.A.		(NLA)
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
Q1501		PN150NV	PHOTO TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO TRANSISTOR HOLDER	1	
	■	- - - - -	PHOTO Tr.(T) C.B.A.		(NLA)
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
Q1502		PN150NV	PHOTO TRANSISTOR	1	
R1503		ERDS2TJ222	C.RESISTOR 1/2W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO TRANSISTOR HOLDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP66107A	REMOTE CONTROLLER(A) C.B.A.		(NLA)
			CAPACITORS		
C6802,03		ECUM1H221JN	C.CAPACITOR CH 50V 220P	2	
C6804		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C6805		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6806		ECUX1H4732FN	C.CAPACITOR CH 50V 0.047U	1	
D6801		LN66S	LED	1	
D6804-12		MA165	DIODE	9	
IC6801		M34200V1AC	IC	1	
Q6801		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q6802-05		2SD601	TRANSISTOR CHIP	4	(Q,R,S)
Q6806		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q6807,08		2SD601	TRANSISTOR CHIP	2	(Q,R,S)
QR6801		UN1231	TRANSISTOR-RESISTOR	1	
QR6802,03		FA1L4M	TRANSISTOR-RESISTOR	2	
QR6804		FA1A4P	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6801		ERDS2TJ3R9	C.RESISTOR 1/4W 3.9	1	
R6804		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6806,07		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R6808		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6809		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6810		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6811		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6812		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6813		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6814		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6816		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6817-21		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	5	
R6823		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6824		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6825		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R6826		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6827		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6828		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6831		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6835		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6836,37		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
X6801		VSX0179	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJR0499	ELECTRODE(+)	1	
		VJR0500	ELECTRODE(-)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP66082A	REMOTE CONTROLLER(B) C.B.A.		(NLA)
			CAPACITORS		
C6801		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
D6802,03		LN222RP	DIODE	2	
			RESISTORS		
R6802		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
			MISCELLANEOUS		
		VSQ0654	PHOTO SENSOR	1	
		VMX0469	FIP SPACER	2	
	■	VEP66077C	DIGITAL SCANNER C.B.A.		(NLA)
			CAPACITORS		
C02		ECEV1CAN4R7R	E.CAPACITOR 16V 4.7U	1	
C03-05		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	3	
C06		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C07,08		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C09		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	1	
C10-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C13		ECEV1HA010	E.CAPACITOR 50V 1U	1	
D04		MA151A	DIODE	1	
D06		SE303ACY	DIODE	1	
IC01		MN158453VFL	IC	1	
IC02		AN8355S	IC	1	
L01		ELT3K017B	COIL	1	
LCD01		VSL0177	LCD	1	
Q02		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q04		2SD601	TRANSISTOR CHIP	1	(Q,R,S)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR02		FN1L4M	TRANSISTOR-RESISTOR	1	
QR04		FA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R01		ERJ6GMYJ120	M.RESISTOR CH 1/10W 12	1	
R02		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R03		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R04		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R05		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R06		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R07		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R08		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R09		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R13		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R16,17		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R18		ERJ8GCYJ120	M.RESISTOR CH 1/8W 12	1	
R19		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R21		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R29		ERJ8GCYJ150	M.RESISTOR CH 1/8W 15	1	
SN01		VSQ0567	SENSOR	1	
SW01		VSS0126	SWITCH	1	
SW02		EVQQFV02K	SWITCH	1	
VR09		EVNDXAA00B34	V.RESISTOR 30K	1	
X01		VSX0245	CRYSTAL OSC.	1	
X02		EFBAL30D001K	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VGQ1406	TERMINAL BASE	1	
		VJR0401	TERMINAL ANGLE	2	
		VMX1324	SPACER	1	